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AEDC-TR-75-125
AFATL-TR-76-23

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**A COMPILATION OF
STATIC STABILITY AND FIN LOADS DATA
FOR SLENDER BODY MISSILE MODELS
WITH AND WITHOUT TAIL FINS AND WINGS**

VOLUME III
(APPENDIX F)
(TEST NUMBER 6)

**PROPULSION WIND TUNNEL FACILITY
ARNOLD ENGINEERING DEVELOPMENT CENTER
AIR FORCE SYSTEMS COMMAND
ARNOLD AF STATION, TENNESSEE 37389**

March 1976

Final Report for Period March 1968 — March 1973

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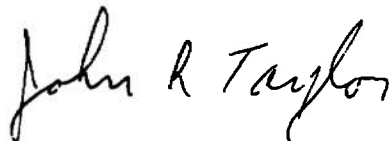
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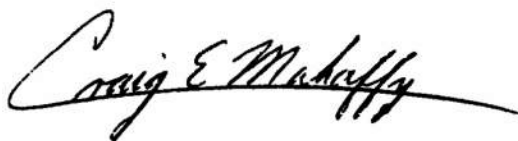
APPROVAL STATEMENT

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER



JOHN R. TAYLOR
Analysis & Evaluation
Division
Directorate of Test



CRAIG E. MAHAFFY
Colonel, USAF
Director of Test

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1 REPORT NUMBER AEDC-TR-75-125 AFATL-TR-76-23	2 GOVT ACCESSION NO.	3 RECIPIENT'S CATALOG NUMBER
4 TITLE (and Subtitle) A COMPILATION OF STATIC STABILITY AND FIN LOADS DATA FOR SLENDER BODY MISSILE MODELS WITH AND WITHOUT TAIL FINS AND WINGS - VOLUME III (APPENDIX F) (TEST NUMBER 6)	5 TYPE OF REPORT & PERIOD COVERED Final Report - March 1968 - 1973	
7. AUTHOR(s) G. R. Gomillion, ARO, Inc.	6 PERFORMING ORG. REPORT NUMBER	
9 PERFORMING ORGANIZATION NAME AND ADDRESS Arnold Engineering Development Center (XO) Air Force Systems Command Arnold Air Force Base, Florida 32543	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS Program Element 62201F	
11. CONTROLLING OFFICE NAME AND ADDRESS Air Force Armament Laboratory (AFATL/DLMA) Eglin Air Force Base, Florida 32543	12. REPORT DATE March 1976	
14 MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)	13 NUMBER OF PAGES 894	
	15 SECURITY CLASS. (of this report) UNCLASSIFIED	
	15a DECLASSIFICATION/DOWNGRADING SCHEDULE N/A	
16 DISTRIBUTION STATEMENT (of this Report) Distribution limited to U.S. Government agencies only; this report contains information on test and evaluation of military hardware; March 1976; other requests for this document must be referred to Air Force Armament Laboratory (AFATL/DLMA), Eglin Air Force Base, Florida 32543.		
17 DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18 SUPPLEMENTARY NOTES Available in DDC; complete report consists of five volumes.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Martin Generalized Research Model slender bodies tables (data) static stability guided missiles fins models aerodynamic loading wing body configurations control surfaces (Continued)		
20 ABSTRACT (Continue on reverse side if necessary and identify by block number) This document contains a compilation of aerodynamic data for the Martin Generalized Research Model, which is a composite of several body, wing, and tail fin configurations typical of missile applications. The model variations included five body configurations, three wing configurations at various body locations, and 15 tail fin configurations. Static stability and tail fin loads data are presented in tabulated and plotted form for a Mach number range		

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19. KEY WORDS (Continued)

deflection
transonic flow
supersonic flow
wind tunnel tests

20. ABSTRACT (Continued)

from 0.20 to 4.63 over an angle-of-attack range from -6 to 60 deg and a sideslip angle range from -20 to 20 deg for the body-alone configurations, body-wing configurations, and the body-wing-tail fin configurations. In addition, the tail fin configurations were tested using the reflection plane technique, and the resulting fin loads data are presented for a Mach number range of 0.80 to 2.16 over an angle-of-attack range from 0 to 210 deg. Volume III contains the tabulated data obtained during Test Number 6 at the Naval Ship Research and Development Center.

PREFACE

The data presented herein were compiled by the Arnold Engineering Development Center (AEDC), Air Force Systems Command (AFSC), under the sponsorship of the Air Force Armament Laboratory (AFATL), Eglin Air Force Base, Florida. Seven different tests were conducted by three organizations: ARO, Inc. (a subsidiary of Sverdrup & Parcel and Associates, Inc.), contract operator of the AEDC, AFSC, Arnold Air Force Station, Tennessee; Naval Ship Research and Development Center (NSRDC), Bethesda, Maryland; and Langley Research Center (LRC), National Aeronautics and Space Administration (NASA), Langley Air Force Base, Virginia. The data were compiled under ARO Project No. P34A-37A. The author of this report was G. R. Gomillion, ARO, Inc. The manuscript (ARO Control No. ARO-PWT-TR-75-88) was submitted for publication on June 20, 1975.

This volume contains the tabulated data that were obtained during Test Number 6 that was conducted in the 7 x 10 Foot Transonic Wind Tunnel at NSRDC during October 1968. As an aid in the use of these data, the table which lists the part numbers for the tabulated data from Test Number 6 and the general list of nomenclature are repeated from Volume I at the end of this volume.

APPENDIX F

TEST 6

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1	0.85	1.7	0.0	82WOF16	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	LLL	CAF	XCP	
1	-2.76	0.0	-0.3987	1.1012	0.0679	-0.1200	-0.0050	0.1519	-2.7616	
2	-2.75	0.01	-0.4237	1.1222	0.1192	-0.1269	-0.0040	0.1570	-2.6482	
3	-1.51	0.0	-0.2305	0.6126	0.0394	-0.1121	-0.0040	0.1574	-2.6581	
4	-0.92	0.0	-0.1274	0.3373	0.0149	-0.0679	-0.0040	0.1569	-2.6480	
5	-0.40	0.0	-0.0410	0.1324	0.0192	-0.0699	-0.0060	0.1547	-3.2293	
6	0.11	-0.01	0.0216	-0.0222	0.0664	-0.2349	-0.0020	0.1626	-1.0296	
7	0.65	-0.01	0.0901	-0.2031	0.0169	-0.1636	-0.0050	0.1653	-2.2546	
8	1.14	-0.01	0.1705	-0.3856	-0.0040	-0.1494	-0.0030	0.1629	-2.2622	
9	1.64	-0.01	0.2440	-0.5925	-0.0043	-0.0540	-0.0030	0.1624	-2.4287	
10	2.12	-0.01	0.3403	-0.8503	0.1165	-0.1611	-0.0040	0.1638	-2.4990	
11	2.61	-0.04	0.4383	-1.0416	-0.0132	-0.2005	-0.0020	0.1625	-2.3763	
12	3.08	-0.03	0.5075	-1.2655	-0.0116	-0.1027	-0.0030	0.1590	-2.5328	
13	3.56	-0.03	0.5918	-1.5225	0.0644	-0.1261	-0.0040	0.1627	-2.5725	
14	4.02	-0.03	0.6881	-1.7612	0.0411	-0.1465	-0.0060	0.1592	-2.5595	
15	4.50	-0.03	0.7840	-2.0595	0.0775	-0.1525	-0.0010	0.1553	-2.6269	
16	4.92	-0.04	0.8655	-2.2615	0.0115	-0.0801	-0.0010	0.1596	-2.6130	
17	5.39	-0.03	0.9473	-2.4430	0.0442	-0.1669	-0.0010	0.1601	-2.5790	
18	5.83	-0.05	1.0236	-2.6618	-0.0054	-0.1864	-0.0030	0.1638	-2.6035	
19	6.26	-0.04	1.1034	-2.8685	0.0294	-0.1781	-0.0060	0.1666	-2.5998	
20	6.71	-0.03	1.1557	-3.0119	0.0470	-0.2628	-0.0020	0.1692	-2.6000	
21	7.15	-0.04	1.2327	-3.1886	0.0681	-0.2343	-0.0020	0.1691	-2.5866	
22	7.60	-0.04	1.2865	-3.3249	0.0641	-0.1957	-0.0040	0.1740	-2.5844	
23	8.03	-0.04	1.3411	-3.4394	0.0292	-0.1219	-0.0050	0.1764	-2.5645	
24	8.46	-0.04	1.3677	-3.4306	0.0849	-0.1948	-0.0160	0.1841	-2.5083	
25	8.87	-0.03	1.4038	-3.3592	0.0319	-0.1466	-0.0070	0.1894	-2.3929	
26	9.29	-0.04	1.4026	-3.2655	0.0157	-0.2170	-0.0030	0.1977	-2.3281	
27	9.72	-0.03	1.4400	-3.3518	0.1063	-0.2188	-0.0060	0.2018	-2.3276	
28	10.11	-0.03	1.4666	-3.3671	0.0138	-0.1693	-0.0050	0.2071	-2.2958	
29	10.52	-0.06	1.5190	-3.3724	0.0161	-0.1545	-0.0060	0.2147	-2.2202	
30	10.89	-0.05	1.5843	-3.5248	0.0882	-0.1745	-0.0100	0.2140	-2.2249	
31	11.28	-0.05	1.6411	-3.5694	0.0389	-0.1404	-0.0120	0.2091	-2.1750	
32	11.64	-0.05	1.7010	-3.7402	0.0585	-0.1759	-0.0130	0.2067	-2.1938	
33	12.00	-0.04	1.7680	-3.7922	0.2037	-0.2511	-0.0180	0.2076	-2.1474	
34	12.37	-0.06	1.8291	-3.9355	0.0450	-0.1590	-0.0130	0.2090	-2.1517	
35	12.73	-0.05	1.8934	-4.0125	0.0637	-0.1512	-0.0180	0.2000	-2.1193	
36	13.09	-0.08	1.9480	-4.1593	-0.0064	-0.2046	-0.0190	0.2068	-2.1373	
37	13.46	-0.06	2.0236	-4.2669	0.1270	-0.1416	-0.0250	0.2051	-2.1035	
38	13.82	-0.06	2.0836	-4.3779	0.0783	-0.1746	-0.0210	0.1991	-2.1011	
39	14.16	-0.09	2.1284	-4.4266	-0.0371	-0.2570	-0.0300	0.1915	-2.0798	
40	14.51	-0.08	2.1748	-4.5385	-0.0599	-0.1271	-0.0260	0.1897	-2.0869	
41	14.86	-0.08	2.2650	-4.6158	0.0333	-0.2626	-0.0300	0.1872	-2.0379	
42	15.25	-0.08	2.3843	-4.8208	-0.0183	-0.1514	-0.0340	0.1836	-2.0219	
43	15.87	-0.08	2.4443	-4.8708	-0.0121	-0.0820	-0.0220	0.1840	-1.9927	
44	16.20	-0.08	2.4913	-4.9166	0.0461	-0.1555	-0.0360	0.1819	-1.9735	
45	16.52	-0.08	2.5392	-5.0296	0.0522	-0.1811	-0.0350	0.1845	-1.9808	
46	16.87	-0.09	2.6036	-5.0648	-0.0635	-0.1721	-0.0210	0.1740	-1.9453	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.085	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP	
47	17.17	-0.07	2.6767	-5.1453	0.0900	-0.2320	-0.0530	0.1766	-1.9222	
48	17.50	-0.07	2.6756	-4.9617	0.1027	-0.3247	-0.0450	0.1813	-1.8544	
49	18.17	-0.09	2.7635	-4.9048	0.0477	-0.4517	-0.0540	0.1952	-1.7748	
50	18.52	-0.07	2.7972	-4.7450	0.1930	-0.4831	-0.0880	0.2024	-1.7142	
51	18.85	-0.09	2.7842	-4.6818	0.1147	-0.6875	-0.0870	0.2040	-1.6815	
52	19.18	-0.10	2.8263	-4.6928	0.0755	-0.6296	-0.0740	0.1982	-1.6604	
53	19.50	-0.09	2.8914	-4.7419	0.0277	-0.4207	-0.0460	0.1879	-1.6573	
54	19.83	-0.09	2.9333	-4.7186	0.0614	-0.3829	-0.0590	0.1833	-1.6086	
55	20.17	-0.08	2.9804	-4.7365	0.0470	-0.2428	-0.0470	0.1818	-1.5699	
56	20.51	-0.09	3.0102	-4.6982	0.0287	-0.2451	-0.0470	0.1787	-1.5608	
57	20.83	-0.09	3.1074	-4.9973	0.0430	-0.1092	-0.0620	0.1461	-1.6082	
58	21.16	-0.09	3.1117	-4.8313	0.0124	0.0256	-0.0440	0.1628	-1.5526	
59	21.47	-0.10	3.1671	-5.0038	-0.0560	-0.0986	-0.0470	0.1439	-1.5600	
60	21.78	-0.09	3.2587	-5.0361	0.0477	-0.1458	-0.0510	0.1453	-1.5454	
61	22.11	-0.10	3.2744	-4.9711	0.0479	-0.2100	-0.0470	0.1494	-1.5182	
62	22.38	-0.10	3.3524	-5.2382	0.0270	-0.0578	-0.0530	0.1288	-1.5625	
63	22.71	-0.11	3.3781	-5.2382	-0.0246	-0.1365	-0.0550	0.1375	-1.5507	
64	23.01	-0.11	3.4514	-5.3480	-0.0742	-0.0881	-0.0590	0.1149	-1.5495	
65	23.32	-0.10	3.4845	-5.3573	0.0087	-0.0252	-0.0560	0.1145	-1.5374	
66	23.62	-0.10	3.4644	-5.4351	0.0104	-0.1465	-0.0540	0.1147	-1.5688	
67	23.94	-0.09	3.5969	-5.5436	0.1227	-0.1318	-0.0510	0.0975	-1.5551	
68	24.25	-0.11	3.6403	-5.7054	-0.1285	0.1349	-0.0370	0.1017	-1.5673	
69	24.55	-0.10	3.6896	-5.6844	0.0855	-0.0487	-0.0470	0.0990	-1.5406	
70	24.86	-0.10	3.7633	-5.8396	-0.0060	-0.0408	-0.0540	0.0853	-1.5517	
71	25.16	-0.08	3.8772	-5.9170	0.2349	-0.2598	-0.0260	0.0787	-1.5261	
72	25.46	-0.09	3.9042	-5.9868	0.0770	-0.0178	-0.0490	0.0905	-1.5334	
73	25.73	-0.10	3.9434	-5.9807	0.1955	-0.6146	-0.0080	0.0742	-1.5166	
74	26.04	-0.10	3.9740	-5.9005	0.1402	-0.3612	-0.0180	0.0682	-1.4848	
75	26.32	-0.12	4.0356	-5.9128	0.1539	-0.7524	0.0250	0.0533	-1.4652	
76	26.64	-0.10	4.1257	-5.9039	-0.0353	-0.1624	-0.0390	0.0530	-1.4310	
77	26.92	-0.11	4.1243	-5.9039	0.1259	-0.4172	0.0050	0.0390	-1.4315	
78	27.25	-0.11	4.2014	-5.7489	0.0405	-0.1462	-0.0060	0.0223	-1.3683	
79	27.53	-0.11	4.2606	-5.8305	0.0902	-0.2372	-0.0080	0.0118	-1.3686	
80	27.83	-0.10	4.2736	-5.7661	0.1457	-0.3489	0.0140	0.0003	-1.3492	
81	28.14	-0.10	4.3720	-5.8279	0.1093	-0.2180	0.0030	-0.0128	-1.3330	
82	28.44	-0.10	4.4299	-5.7789	0.2265	-0.4360	0.0510	-0.0336	-1.3045	
83	28.76	-0.11	4.4789	-5.7066	0.0533	-0.3236	0.0430	-0.0397	-1.2741	
84	29.06	-0.11	4.5456	-5.8079	0.1471	-0.3839	0.0510	-0.0499	-1.2777	
85	29.36	-0.11	4.5895	-5.7854	0.2297	-0.6365	0.0860	-0.0578	-1.2606	
86	29.66	-0.11	4.6999	-5.6430	0.1340	-0.4555	0.0680	-0.0685	-1.2007	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RL10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.085	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CH1	CH2	XLPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.76	0.0	0.0037	-0.0002	0.0075	-0.0541	2.0359	-0.1712	-0.0516	-0.0783	0.3014	0.4576
2	-2.75	0.01	-0.0017	0.0	0.0002	0.0	-0.1374	0.0001	0.0	-0.0004	0.0	-3.6668
3	-1.51	0.0	0.0057	0.0006	0.0092	0.1053	1.6139	-0.0921	-0.0281	-0.0417	0.3051	0.4526
4	-0.72	0.0	0.0060	0.0012	0.0103	0.2000	1.7165	-0.0552	-0.0161	-0.0237	0.2917	0.4292
5	-0.40	0.0	0.0115	0.0021	0.0110	0.1826	0.9593	-0.0244	-0.0057	-0.0005	0.2336	0.3496
6	0.11	-0.01	0.0211	0.0046	0.0146	0.2180	0.6934	0.0152	0.0056	0.0057	0.3684	0.3727
7	0.65	-0.01	0.0079	0.0015	0.0058	0.1899	1.2446	0.0385	0.0146	0.0189	0.3792	0.4917
8	1.14	-0.01	0.0043	0.0008	0.0082	0.1860	1.9146	0.0662	0.0222	0.0288	0.3353	0.4344
9	1.64	-0.01	0.0207	0.0032	0.0101	0.1546	0.4878	0.1042	0.0326	0.0436	0.3129	0.4167
10	2.12	-0.01	0.0100	0.0020	0.0095	0.2000	0.9532	0.1354	0.0432	0.0598	0.3191	0.4418
11	2.61	-0.04	0.0120	0.0025	0.0098	0.2083	0.8165	0.1666	0.0539	0.0761	0.3235	0.4569
12	3.08	-0.03	0.0154	0.0029	0.0108	0.1883	0.7033	0.2034	0.0633	0.0902	0.3112	0.4433
13	3.56	-0.03	0.0224	0.0033	0.0100	0.1473	0.4448	0.2406	0.0747	0.1099	0.3105	0.4567
14	4.02	-0.03	0.0227	0.0041	0.0124	0.1806	0.5447	0.2758	0.0832	0.1246	0.3017	0.4518
15	4.50	-0.03	0.0223	0.0035	0.0116	0.1570	0.5216	0.3076	0.0912	0.1397	0.2965	0.4542
16	4.92	-0.04	0.0201	0.0024	0.0103	0.1194	0.5123	0.3412	0.0984	0.1545	0.2884	0.4528
17	5.39	-0.03	0.0234	0.0027	0.0113	0.1154	0.4828	0.3693	0.1052	0.1715	0.2849	0.4643
18	5.83	-0.05	0.0262	0.0025	0.0133	0.0954	0.5088	0.4049	0.1097	0.1858	0.2709	0.4589
19	6.26	-0.04	0.0287	0.0013	0.0123	0.0453	0.4273	0.4331	0.1092	0.1969	0.2521	0.4547
20	6.71	-0.03	0.0374	0.0030	0.0182	0.0802	0.4856	0.4563	0.1105	0.2073	0.2422	0.4544
21	7.15	-0.04	0.0350	0.0019	0.0172	0.0543	0.4904	0.4674	0.1121	0.2201	0.2300	0.4516
22	7.60	-0.04	0.0401	0.0021	0.0174	0.0524	0.4330	0.5011	0.1132	0.2274	0.2259	0.4537
23	8.03	-0.04	0.0336	0.0025	0.0184	0.0744	0.5475	0.5229	0.1130	0.2368	0.2161	0.4529
24	8.46	-0.04	0.0380	0.0040	0.0152	0.1053	0.5043	0.5286	0.0995	0.2427	0.1882	0.4592
25	8.87	-0.03	0.0270	0.0019	0.0158	0.0704	0.5851	0.5081	0.0606	0.2344	0.1586	0.4613
26	9.29	-0.04	0.0179	0.0	0.0124	0.0	0.6908	0.4995	0.0724	0.2231	0.1449	0.4467
27	9.72	-0.03	0.0233	0.0013	0.0158	0.0558	0.6766	0.5056	0.0685	0.2247	0.1355	0.4444
28	10.11	-0.03	0.0264	0.0013	0.0168	0.0492	0.6362	0.5099	0.0664	0.2244	0.1302	0.4401
29	10.52	-0.06	0.0211	0.0006	0.0160	0.0284	0.7598	0.5070	0.0640	0.2271	0.1262	0.4480
30	10.89	-0.05	0.0253	0.0	0.0173	0.0	0.6850	0.5313	0.0622	0.2335	0.1171	0.4396
31	11.28	-0.05	0.0344	0.0022	0.0230	0.0640	0.6675	0.5342	0.0615	0.2364	0.1151	0.4425
32	11.64	-0.05	0.0218	-0.0009	0.0144	-0.0413	0.6589	0.5563	0.0602	0.2450	0.1082	0.4404
33	12.00	-0.04	0.0388	0.0019	0.0252	0.0490	0.6502	0.5749	0.0595	0.2539	0.1035	0.4416
34	12.37	-0.06	0.0284	0.0002	0.0195	0.0070	0.6853	0.5889	0.0594	0.2603	0.1009	0.4421
35	12.73	-0.05	0.0330	-0.0002	0.0204	-0.0061	0.6181	0.6066	0.0596	0.2652	0.0983	0.4372
36	13.09	-0.08	0.0395	0.0006	0.0250	0.0152	0.6319	0.6304	0.0594	0.2737	0.0942	0.4341
37	13.46	-0.06	0.0205	-0.0025	0.0146	-0.1220	0.7137	0.6378	0.0595	0.2788	0.0933	0.4372
38	13.82	-0.06	0.0274	-0.0016	0.0172	-0.0584	0.6288	0.6506	0.0595	0.2841	0.0915	0.4367
39	14.16	-0.04	0.0116	-0.0040	0.0116	-0.3448	0.9970	0.6570	0.0601	0.2878	0.0915	0.4381
40	14.51	-0.08	0.0249	-0.0036	0.0131	-0.1446	0.5260	0.6786	0.0601	0.2954	0.0886	0.4353
41	14.86	-0.08	0.0095	-0.0047	0.0108	-0.4947	1.1332	0.6867	0.0601	0.2972	0.0875	0.4328
42	15.25	-0.08	0.0110	-0.0049	0.0109	-0.4455	0.9878	0.7116	0.0606	0.3095	0.0852	0.4350
43	15.87	-0.08	0.0314	-0.0028	0.0191	-0.0892	0.5753	0.7240	0.0603	0.3158	0.0833	0.4363
44	16.20	-0.08	-0.0052	-0.0078	0.0050	1.5000	-0.9552	0.7338	0.0605	0.3178	0.0824	0.4331
45	16.52	-0.08	0.0206	-0.0040	0.0174	-0.1942	0.6429	0.7510	0.0606	0.3258	0.0807	0.4339
46	16.87	-0.09	0.0437	0.0	0.0278	0.0	0.6353	0.7638	0.0603	0.3306	0.0789	0.4328

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNCF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 1 0.85 1.7 0.0 B2WOF16 0.0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNCF1	CH1	CH2	XCPCF1	YCPCF1	CNCF2	CH2	CH2	XCPCF2	YCPCF2
47	17.17	-0.07	0.0066	-0.0076	0.0041	-1.1515	0.6211	0.7701	0.0608	0.3330	0.0790	0.4324
48	17.50	-0.07	0.0274	-0.0017	0.0244	-0.0620	1.0339	0.7818	0.0610	0.3391	0.0780	0.4338
49	18.17	-0.09	0.0309	-0.0073	0.0196	-0.2362	0.6342	0.7915	0.0600	0.3434	0.0758	0.4339
50	18.52	-0.07	0.0827	-0.0025	0.0504	-0.0302	0.6150	0.8210	0.0595	0.3534	0.0725	0.4304
51	18.85	-0.09	0.0617	-0.0079	0.0304	-0.1280	0.4920	0.8005	0.0602	0.3446	0.0752	0.4305
52	19.18	-0.10	0.0664	-0.0070	0.0341	-0.1023	0.4984	0.7970	0.0604	0.3448	0.0758	0.4326
53	19.50	-0.09	0.0815	-0.0030	0.0446	-0.0368	0.5467	0.7958	0.0605	0.3422	0.0760	0.4300
54	19.83	-0.09	0.0558	-0.0057	0.0380	-0.1022	0.6609	0.7890	0.0608	0.3421	0.0771	0.4336
55	20.17	-0.08	0.0004	-0.0108	-0.0052	-27.0000	-12.9168	0.7364	0.0650	0.3136	0.0883	0.4258
56	20.51	-0.09	0.0370	-0.0071	0.0345	-0.1919	0.9332	0.7834	0.0616	0.3440	0.0786	0.4392
57	20.83	-0.09	0.0543	-0.0049	0.0405	-0.0902	0.7531	0.8151	0.0599	0.3568	0.0735	0.4377
58	21.16	-0.09	0.0052	-0.0090	0.0170	-1.7368	3.2755	0.7693	0.0631	0.3373	0.0820	0.4385
59	21.47	-0.10	0.1920	-0.0077	-0.0968	-0.0401	-0.5043	0.7498	0.0623	0.3451	0.0789	0.4369
60	21.78	-0.09	-0.0083	-0.0124	0.0017	1.4490	-0.2090	0.7855	0.0637	0.3405	0.0011	0.4335
61	22.11	-0.10	-0.0206	-0.0099	-0.0048	0.4806	0.2313	0.7691	0.0634	0.3365	0.0650	0.4375
62	22.38	-0.10	0.0031	-0.0111	0.0094	-3.5806	3.0429	0.8087	0.0633	0.3525	0.0763	0.4358
63	22.71	-0.11	-0.0373	-0.0121	-0.0187	0.3244	0.5021	0.7942	0.0649	0.3470	0.0817	0.4370
64	23.01	-0.11	-0.0161	-0.0128	-0.0063	0.7950	0.3491	0.8095	0.0643	0.3508	0.0794	0.4334
65	23.32	-0.10	-0.0144	-0.0127	-0.0053	0.8814	0.3679	0.8231	0.0638	0.3599	0.0775	0.4372
66	23.62	-0.10	-0.0286	-0.0113	-0.0169	0.3951	0.5920	0.8202	0.0644	0.3599	0.0785	0.4388
67	23.94	-0.09	-0.0181	-0.0101	-0.0136	0.5580	0.7531	0.8364	0.0644	0.3616	0.0770	0.4323
68	24.25	-0.11	-0.0178	-0.0097	0.0014	0.5449	-0.0769	0.8504	0.0639	0.3694	0.0751	0.4343
69	24.55	-0.10	-0.0170	-0.0086	0.0012	0.5059	-0.0727	0.8728	0.0635	0.3777	0.0728	0.4328
70	24.86	-0.10	-0.0005	-0.0091	-0.0147	18.2000	24.3332	0.8788	0.0643	0.3819	0.0732	0.4346
71	25.16	-0.08	-0.0076	-0.0084	-0.0056	1.1053	0.7411	0.8951	0.0630	0.3872	0.0704	0.4325
72	25.45	-0.09	-0.0103	-0.0081	-0.0090	0.7864	0.8769	0.9030	0.0628	0.3910	0.0695	0.4330
73	25.73	-0.10	0.0320	0.0008	-0.0014	0.0250	-0.0449	0.8985	0.0634	0.3874	0.0706	0.4312
74	26.04	-0.10	0.0591	0.0068	0.0126	0.1151	0.2131	0.9066	0.0628	0.3932	0.0693	0.4337
75	26.32	-0.12	0.0792	0.0139	0.0234	0.1755	0.3206	0.9065	0.0632	0.3923	0.0697	0.4327
76	26.64	-0.10	0.0102	-0.0022	0.0076	-0.2157	0.7646	0.9287	0.0621	0.4012	0.0669	0.4320
77	26.92	-0.11	0.0803	0.0155	0.0373	0.1930	0.4640	0.9220	0.0620	0.4058	0.0672	0.4293
78	27.25	-0.11	0.0634	0.0086	0.0264	0.1356	0.4168	0.9277	0.0618	0.3988	0.0666	0.4299
79	27.53	-0.11	0.0672	0.0104	0.0327	0.1548	0.4865	0.9337	0.0614	0.4018	0.0658	0.4304
80	27.83	-0.10	0.1014	0.0171	0.0482	0.1686	0.4752	0.9333	0.0613	0.4015	0.0657	0.4302
81	28.14	-0.10	0.0609	0.0077	0.0286	0.1264	0.4695	0.9405	0.0612	0.4038	0.0651	0.4293
82	28.44	-0.10	0.0868	0.0143	0.0453	0.1647	0.5222	0.9420	0.0609	0.4057	0.0646	0.4307
83	28.76	-0.11	0.0996	0.0190	0.0511	0.1908	0.5129	0.9438	0.0611	0.4042	0.0647	0.4283
84	29.06	-0.11	0.1608	0.0341	0.0748	0.2121	0.4651	0.9468	0.0609	0.4058	0.0642	0.4276
85	29.36	-0.11	0.1590	0.0368	0.0804	0.2314	0.5055	0.9496	0.0604	0.4060	0.0636	0.4297
86	29.46	-0.11	0.1655	0.0416	0.0866	0.2514	0.5235	0.9482	0.0608	0.4104	0.0641	0.4328

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CNFF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION	
6		1	0.85	1.7	0.0	B2WOF16	0.0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPCF3	YCPCF3	CNF4	CH4	CB4	XCPCF4	YCPCF4
1	-2.76	0.0	0.0149	0.0048	0.0076	0.3221	0.5077	-0.1987	-0.0549	-0.0785	0.2763	0.3951
2	-2.75	0.01	0.0018	0.0	-0.0002	0.0	-0.1112	0.0035	0.0	-0.0007	0.0	-0.2096
3	-1.51	0.0	0.0161	0.0057	0.0101	0.3540	0.6251	-0.1148	-0.0304	-0.0390	0.2648	0.3393
4	-0.92	0.0	0.0165	0.0050	0.0085	0.3030	0.5150	-0.0814	-0.0195	-0.0225	0.2396	0.2767
5	-0.40	0.0	0.0255	0.0077	0.0131	0.3626	0.5136	-0.0414	-0.0094	-0.0084	0.2271	0.2028
6	0.11	-0.01	0.0209	0.0063	0.0111	0.3614	0.5294	-0.0091	-0.0005	0.0040	0.0549	-0.4360
7	0.65	-0.01	0.0260	0.0067	0.0114	0.2577	0.4371	0.0264	0.0096	0.0188	0.3636	0.7120
8	1.14	-0.01	0.0176	0.0059	0.0111	0.3352	0.6287	0.0615	0.0190	0.0320	0.3089	0.5202
9	1.64	-0.01	0.0245	0.0062	0.0103	0.2531	0.4189	0.0892	0.0282	0.0467	0.3161	0.5238
10	2.12	-0.01	0.0275	0.0069	0.0130	0.2509	0.4714	0.1324	0.0395	0.0629	0.2983	0.4752
11	2.61	-0.04	0.0319	0.0085	0.0154	0.2665	0.4837	0.1655	0.0487	0.0771	0.2943	0.4661
12	3.08	-0.03	0.0321	0.0080	0.0145	0.2442	0.4516	0.1971	0.0585	0.0937	0.2968	0.4753
13	3.56	-0.03	0.0340	0.0077	0.0137	0.2265	0.4036	0.2404	0.0704	0.1127	0.2928	0.4688
14	4.02	-0.03	0.0352	0.0087	0.0162	0.2472	0.4811	0.2727	0.0734	0.1274	0.2875	0.4671
15	4.50	-0.03	0.0321	0.0078	0.0154	0.2430	0.4796	0.3149	0.0886	0.1453	0.2814	0.4615
16	4.92	-0.04	0.0407	0.0080	0.0148	0.1966	0.3627	0.3430	0.0954	0.1597	0.2781	0.4656
17	5.39	-0.03	0.0372	0.0080	0.0151	0.2151	0.4058	0.3731	0.1028	0.1745	0.2755	0.4678
18	5.83	-0.05	0.0439	0.0087	0.0162	0.1966	0.3697	0.4003	0.1080	0.1852	0.2698	0.4626
19	6.26	-0.04	0.0422	0.0085	0.0155	0.2014	0.3684	0.4255	0.1130	0.1992	0.2656	0.4681
20	6.71	-0.03	0.0422	0.0100	0.0196	0.2075	0.4058	0.4499	0.1165	0.2104	0.2589	0.4677
21	7.15	-0.04	0.0438	0.0085	0.0176	0.1941	0.3680	0.4688	0.1194	0.2213	0.2547	0.4721
22	7.60	-0.04	0.0483	0.0096	0.0195	0.1988	0.4036	0.4890	0.1217	0.2322	0.2489	0.4749
23	8.03	-0.04	0.0434	0.0092	0.0183	0.2120	0.4208	0.5107	0.1080	0.2370	0.2115	0.4640
24	8.46	-0.04	0.0483	0.0098	0.0186	0.2029	0.4650	0.4823	0.0609	0.2287	0.1677	0.4742
25	8.87	-0.03	0.0437	0.0087	0.0171	0.1991	0.3904	0.4930	0.0779	0.2314	0.1580	0.4693
26	9.29	-0.04	0.0462	0.0100	0.0198	0.2075	0.4100	0.4902	0.0726	0.2286	0.1481	0.4664
27	9.72	-0.03	0.0463	0.0102	0.0210	0.2203	0.4342	0.4992	0.0686	0.2278	0.1374	0.4564
28	10.11	-0.03	0.0477	0.0106	0.0225	0.2222	0.4716	0.4988	0.0665	0.2299	0.1333	0.4609
29	10.52	-0.06	0.0490	0.0115	0.0242	0.2347	0.4994	0.4998	0.0637	0.2287	0.1275	0.4577
30	10.89	-0.05	0.0463	0.0104	0.0212	0.2246	0.4585	0.5097	0.0630	0.2348	0.1236	0.4607
31	11.28	-0.05	0.0488	0.0117	0.0255	0.2398	0.5217	0.5225	0.0611	0.2366	0.1169	0.4528
32	11.64	-0.05	0.0422	0.0111	0.0245	0.2630	0.5797	0.5390	0.0598	0.2446	0.1109	0.4538
33	12.03	-0.04	0.0469	0.0118	0.0268	0.2516	0.5720	0.5355	0.0598	0.2498	0.1117	0.4591
34	12.37	-0.06	0.0412	0.0099	0.0215	0.2403	0.5225	0.5573	0.0587	0.2542	0.1053	0.4561
35	12.73	-0.05	0.0418	0.0117	0.0262	0.2799	0.6275	0.5693	0.0587	0.2613	0.1031	0.4590
36	13.09	-0.08	0.0503	0.0122	0.0265	0.2425	0.5261	0.5633	0.0587	0.2641	0.1006	0.4527
37	13.46	-0.06	0.0406	0.0106	0.0246	0.2611	0.6066	0.5937	0.0591	0.2720	0.0995	0.4582
38	13.82	-0.06	0.0421	0.0111	0.0263	0.2637	0.6254	0.6108	0.0590	0.2784	0.0966	0.4558
39	14.16	-0.06	0.0510	0.0138	0.0325	0.2706	0.6371	0.6252	0.0592	0.2817	0.0947	0.4506
40	14.51	-0.08	0.0470	0.0119	0.0275	0.2532	0.5928	0.6363	0.0593	0.2876	0.0932	0.4520
41	14.86	-0.08	0.0552	0.0129	0.0297	0.2337	0.5379	0.6467	0.0594	0.2953	0.0919	0.4566
42	15.55	-0.08	0.0489	0.0116	0.0271	0.2372	0.5541	0.6709	0.0592	0.3046	0.0882	0.4539
43	15.87	-0.08	0.0519	0.0122	0.0295	0.2351	0.5683	0.6797	0.0594	0.3077	0.0874	0.4527
44	16.20	-0.08	0.0553	0.0127	0.0293	0.2297	0.5303	0.6902	0.0596	0.3139	0.0864	0.4548
45	16.52	-0.08	0.0502	0.0122	0.0296	0.2430	0.5902	0.6884	0.0596	0.3132	0.0866	0.4549
46	16.87	-0.09	0.0536	0.0123	0.0299	0.2295	0.5571	0.7006	0.0597	0.3175	0.0852	0.4531

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSUNIC WIND TUNNEL FACILITY

PAGE 1 OF 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	CEL3	DEL4	TRANSITION
6		1.0		0.85		1.7	0.0	B2WOF16	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4	
47	17.17	-0.07	0.0551	0.0127	0.0309	0.2305	0.5601	0.7092	0.0596	0.3209	0.0840	0.4525	
48	17.50	-0.07	0.0515	0.0124	0.0325	0.2408	0.6303	0.7070	0.0630	0.3234	0.0849	0.4574	
49	18.17	-0.09	0.0532	0.0130	0.0313	0.2444	0.5389	0.6895	0.0619	0.3080	0.0898	0.4466	
50	18.52	-0.07	0.0634	0.0132	0.0315	0.2082	0.5036	0.6258	0.0641	0.2863	0.1024	0.4575	
51	18.85	-0.09	0.0676	0.0147	0.0365	0.2175	0.5403	0.6243	0.0647	0.2889	0.1036	0.4628	
52	19.18	-0.10	0.0584	0.0125	0.0317	0.2140	0.5421	0.6246	0.0652	0.2901	0.1044	0.4645	
53	19.50	-0.09	0.0589	0.0118	0.0297	0.2003	0.5047	0.6435	0.0648	0.2973	0.1007	0.4620	
54	19.83	-0.09	0.0636	0.0125	0.0319	0.1965	0.5015	0.6505	0.0651	0.3004	0.1001	0.4617	
55	20.17	-0.08	0.0646	0.0140	0.0345	0.2167	0.5345	0.7218	0.0625	0.3265	0.0866	0.4524	
56	20.51	-0.09	0.0633	0.0130	0.0329	0.2054	0.5196	0.6663	0.0657	0.3115	0.0986	0.4675	
57	20.83	-0.09	0.0587	0.0117	0.0316	0.1993	0.5376	0.6724	0.0643	0.3164	0.0956	0.4705	
58	21.16	-0.09	0.0603	0.0119	0.0320	0.1973	0.5306	0.7002	0.0645	0.3261	0.0921	0.4657	
59	21.47	-0.10	0.0584	0.0122	0.0336	0.2089	0.5747	0.7131	0.0637	0.3324	0.0893	0.4662	
60	21.78	-0.09	0.0682	0.0135	0.0345	0.2038	0.5062	0.7287	0.0637	0.3374	0.0874	0.4630	
61	22.11	-0.10	0.0713	0.0144	0.0365	0.2020	0.5169	0.7509	0.0630	0.3457	0.0839	0.4604	
62	22.38	-0.10	0.0719	0.0134	0.0354	0.1864	0.4918	0.7459	0.0643	0.3442	0.0862	0.4615	
63	22.71	-0.11	0.0695	0.0147	0.0375	0.2115	0.5390	0.7758	0.0621	0.3593	0.0800	0.4631	
64	23.01	-0.11	0.0715	0.0142	0.0365	0.1986	0.5164	0.7718	0.0634	0.3563	0.0821	0.4616	
65	23.32	-0.10	0.0734	0.0141	0.0361	0.1921	0.4913	0.7699	0.0634	0.3609	0.0823	0.4688	
66	23.62	-0.10	0.0740	0.0151	0.0395	0.1936	0.5363	0.7993	0.0623	0.3710	0.0779	0.4642	
67	23.94	-0.09	0.0665	0.0140	0.0376	0.2105	0.5558	0.8156	0.0618	0.3772	0.0758	0.4624	
68	24.25	-0.11	0.0566	0.0121	0.0348	0.2065	0.5943	0.8160	0.0628	0.3801	0.0770	0.4658	
69	24.55	-0.10	0.0618	0.0128	0.0351	0.2071	0.5578	0.8349	0.0622	0.3865	0.0745	0.4629	
70	24.86	-0.10	0.0743	0.0153	0.0410	0.2059	0.5512	0.8555	0.0617	0.3934	0.0721	0.4598	
71	25.16	-0.08	0.0632	0.0134	0.0365	0.2120	0.5769	0.8586	0.0615	0.4019	0.0716	0.4681	
72	25.46	-0.09	0.0709	0.0143	0.0398	0.2017	0.5617	0.8734	0.0613	0.4055	0.0702	0.4643	
73	25.73	-0.10	0.0724	0.0145	0.0389	0.2003	0.5376	0.8921	0.0602	0.4145	0.0675	0.4646	
74	26.04	-0.10	0.0783	0.0156	0.0428	0.1992	0.5465	0.8901	0.0607	0.4134	0.0682	0.4644	
75	26.32	-0.12	0.0735	0.0151	0.0404	0.2054	0.5495	0.8968	0.0598	0.4184	0.0667	0.4669	
76	26.64	-0.10	0.0624	0.0130	0.0370	0.2083	0.5428	0.9000	0.0605	0.4180	0.0672	0.4644	
77	26.92	-0.11	0.0781	0.0156	0.0431	0.1997	0.5422	0.9158	0.0593	0.4227	0.0648	0.4615	
78	27.25	-0.11	0.0687	0.0140	0.0401	0.2038	0.5436	0.9119	0.0598	0.4214	0.0656	0.4621	
79	27.53	-0.11	0.0623	0.0130	0.0375	0.2087	0.6077	0.9096	0.0594	0.4238	0.0653	0.4659	
80	27.83	-0.10	0.0752	0.0149	0.0421	0.1981	0.5593	0.9142	0.0595	0.4228	0.0651	0.4625	
81	28.14	-0.10	0.0738	0.0142	0.0417	0.1924	0.5649	0.9146	0.0590	0.4270	0.0645	0.4668	
82	28.44	-0.10	0.0578	0.0124	0.0364	0.2145	0.6291	0.9162	0.0592	0.4295	0.0646	0.4688	
83	28.76	-0.11	0.0656	0.0142	0.0401	0.2165	0.6107	0.9172	0.0585	0.4275	0.0638	0.4661	
84	29.06	-0.11	0.0723	0.0145	0.0421	0.2006	0.5822	0.9396	0.0584	0.4347	0.0622	0.4626	
85	29.36	-0.11	0.0724	0.0146	0.0421	0.2017	0.5818	0.9438	0.0581	0.4396	0.0616	0.4658	
86	29.46	-0.11	0.0726	0.0146	0.0425	0.2011	0.5853	0.9496	0.0581	0.4396	0.0612	0.4630	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	2	0.92	1.7	0.0	B2WOF16	0.0	0	0	0	0	Fixed
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.77	0.0	-0.4461	1.1865	0.0812	-0.1407	0.0010	0.1763	-2.6595		
2	-2.48	0.0	-0.4195	1.1403	0.0646	-0.1404	-0.0010	0.1765	-2.7179		
3	-1.88	0.0	-0.2765	0.7280	0.0887	-0.2072	-0.0050	0.1770	-2.6333		
4	-1.31	0.02	-0.1965	0.4730	0.0480	0.0138	-0.0080	0.1755	-2.4076		
5	-0.73	0.0	-0.0979	0.2750	0.0337	-0.1452	-0.0030	0.1710	-2.8096		
6	-0.21	0.01	-0.0201	0.0971	0.0484	-0.1187	-0.0060	0.1775	-4.8328		
7	0.32	0.0	0.0333	-0.0236	0.0285	-0.1479	-0.0040	0.1780	-0.7093		
8	0.83	0.0	0.1236	-0.2170	0.0265	-0.1041	-0.0080	0.1800	-1.7500		
9	1.33	-0.03	0.1560	-0.4071	0.0813	-0.2148	-0.0060	0.1882	-2.0566		
10	1.82	-0.02	0.2638	-0.6222	0.0864	-0.1409	-0.0050	0.1892	-2.3591		
11	2.32	-0.03	0.3794	-0.9310	0.0268	-0.1825	-0.0030	0.1862	-2.4543		
12	2.79	-0.02	0.4669	-1.1746	0.0505	-0.1217	-0.0050	0.1888	-2.5156		
13	3.25	-0.04	0.5806	-1.4898	-0.0219	-0.2043	-0.0020	0.1905	-2.5658		
14	3.72	-0.03	0.6783	-1.7405	0.0090	-0.0716	-0.0030	0.1892	-2.5660		
15	4.15	-0.02	0.7478	-2.0138	0.0783	-0.0946	-0.0020	0.1936	-2.6930		
16	4.61	-0.02	0.8340	-2.2744	0.0504	-0.0756	-0.0050	0.1918	-2.7272		
17	5.06	-0.03	0.9373	-2.5440	0.0537	-0.0772	-0.0010	0.1996	-2.7143		
18	5.52	-0.04	1.0354	-2.7993	0.0493	-0.0190	0.0020	0.2006	-2.7037		
19	5.96	-0.03	1.0911	-2.9523	0.0237	-0.0682	0.0080	0.2026	-2.7059		
20	6.42	-0.05	1.1776	-3.1085	0.0125	-0.0685	0.0170	0.2127	-2.6396		
21	6.86	-0.03	1.2195	-3.2522	0.0323	0.0358	0.0360	0.2253	-2.6667		
22	7.30	-0.04	1.2922	-3.4139	0.0416	0.0538	0.0340	0.2323	-2.6419		
23	7.75	-0.05	1.3409	-3.4841	-0.0062	0.0637	0.0470	0.2357	-2.5983		
24	8.18	-0.05	1.4101	-3.5989	-0.0098	0.0697	0.0430	0.2443	-2.5522		
25	8.61	-0.06	1.4692	-3.7487	-0.0041	0.0627	0.0270	0.2427	-2.5515		
26	9.00	-0.04	1.5480	-3.8490	-0.0243	0.1010	0.0340	0.2370	-2.4864		
27	9.42	-0.06	1.6004	-3.9653	-0.0147	0.0874	0.0050	0.2411	-2.4777		
28	9.84	-0.07	1.6489	-4.0122	-0.0180	0.3718	-0.0260	0.2457	-2.4333		
29	10.22	-0.07	1.7029	-4.0788	0.1216	-0.2442	-0.0280	0.2458	-2.3952		
30	10.64	-0.05	1.7586	-4.2328	0.0757	-0.1680	-0.0280	0.2403	-2.4069		
31	11.02	-0.08	1.7806	-4.1426	0.0580	-0.3891	-0.0580	0.2354	-2.3265		
32	11.41	-0.05	1.7788	-4.0091	0.1350	-0.1710	-0.0190	0.2379	-2.2538		
33	11.76	-0.07	1.8330	-4.0879	0.0794	-0.2218	-0.0180	0.2374	-2.2302		
34	12.14	-0.08	1.9073	-4.2871	0.0064	-0.1569	-0.0160	0.2370	-2.2477		
35	12.51	-0.08	1.9800	-4.3988	0.0322	-0.2520	-0.0220	0.2328	-2.2216		
36	12.86	-0.08	2.0784	-4.6276	0.0321	-0.1399	-0.0210	0.2344	-2.2265		
37	13.21	-0.07	2.1204	-4.7274	0.0964	-0.1589	-0.0340	0.2288	-2.2294		
38	13.58	-0.08	2.2013	-4.8726	0.0412	-0.1577	-0.0220	0.2233	-2.2135		
39	13.91	-0.08	2.2979	-5.1208	0.0321	-0.1419	-0.0340	0.2233	-2.2285		
40	14.24	-0.09	2.3482	-5.2582	-0.0138	-0.1557	-0.0370	0.2228	-2.2393		
41	14.63	-0.09	2.4377	-5.3755	0.0814	-0.1266	-0.0440	0.2154	-2.2052		
42	14.95	-0.08	2.5270	-5.5485	0.0120	-0.1708	-0.0360	0.2167	-2.1957		
43	15.32	-0.07	2.5854	-5.5992	0.0141	0.0243	-0.0450	0.2104	-2.1657		
44	15.64	-0.08	2.6284	-5.7194	-0.0007	-0.0580	-0.0360	0.2081	-2.1760		
45	15.99	-0.09	2.7193	-5.8598	0.0398	-0.1417	-0.0400	0.2054	-2.1549		
46	16.30	-0.10	2.7831	-5.9361	-0.0224	-0.0576	-0.0480	0.1997	-2.1329		

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7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	2	0.92	1.7	0.0	0.82	0.0	0	0	0	0	FIXED
PLINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.65	-0.09	2.8472	-5.9739	0.0330	-0.0102	-0.0540	0.1969	-2.0981		
48	16.96	-0.08	2.9072	-6.0628	0.0826	-0.0256	-0.0550	0.1924	-2.0854		
49	17.30	-0.10	2.9354	-6.1343	-0.0314	-0.0460	-0.0460	0.1895	-2.0898		
50	17.62	-0.08	3.0029	-6.1698	0.0644	0.0408	-0.0490	0.1801	-2.0546		
51	17.96	-0.09	3.0647	-6.2063	0.0316	-0.0392	-0.0550	0.1806	-2.0251		
52	18.29	-0.09	3.1325	-6.2622	-0.0632	-0.0225	-0.0590	0.1753	-1.9991		
53	18.62	-0.10	3.1853	-6.2862	-0.0270	-0.0592	-0.0550	0.1700	-1.9735		
54	18.97	-0.10	3.2171	-6.2297	0.0047	-0.1136	-0.0700	0.1688	-1.9364		
55	19.26	-0.09	3.2662	-6.3462	0.0135	-0.0485	-0.0660	0.1595	-1.9418		
56	19.60	-0.09	3.3134	-6.3315	-0.0043	-0.0330	-0.0670	0.1602	-1.9109		
57	19.94	-0.09	3.3488	-6.1981	0.0609	-0.0383	-0.0700	0.1559	-1.8509		
58	20.28	-0.09	3.4278	-6.2747	0.0165	0.0069	-0.0620	0.1525	-1.8305		
59	20.61	-0.10	3.4270	-6.1266	-0.0572	0.0451	-0.0580	0.1549	-1.7878		
60	20.97	-0.10	3.4215	-5.9539	0.0623	-0.2852	-0.1030	0.1729	-1.7402		
61	21.28	-0.11	3.4935	-6.0369	-0.0625	-0.1235	-0.0500	0.1737	-1.7280		
62	21.59	-0.09	3.5254	-6.0305	0.0175	-0.0415	-0.0550	0.1678	-1.7106		
63	21.91	-0.09	3.5962	-6.0726	0.0362	0.0683	-0.0500	0.1627	-1.6886		
64	22.21	-0.11	3.6377	-6.1467	0.0195	-0.1283	-0.0540	0.1613	-1.6897		
65	22.53	-0.12	3.7227	-6.1657	-0.0581	-0.1246	-0.0500	0.1592	-1.6562		
66	22.83	-0.10	3.7305	-6.2296	-0.0348	-0.0687	-0.0640	0.1477	-1.6699		
67	23.16	-0.11	3.8405	-6.3326	0.0241	-0.1667	-0.0850	0.1418	-1.6489		
68	23.46	-0.11	3.9081	-6.3552	-0.0063	-0.0432	-0.0200	0.1403	-1.6262		
69	23.78	-0.10	3.8557	-6.2517	0.0556	-0.0998	-0.0510	0.1276	-1.6197		
70	24.12	-0.12	3.9994	-6.2980	-0.0720	0.0118	-0.0680	0.1305	-1.5748		
71	24.41	-0.11	3.9763	-6.1837	-0.0106	-0.0642	-0.0600	0.1103	-1.5551		
72	24.74	-0.09	4.1098	-6.3326	0.1162	-0.0577	-0.0590	0.1115	-1.5409		
73	25.05	-0.10	4.2870	-6.4608	0.0294	0.1188	-0.0770	0.1076	-1.5071		
74	25.33	-0.12	4.2213	-6.2558	-0.0305	-0.0833	-0.0450	0.0984	-1.4820		
75	25.62	-0.10	4.2932	-6.2985	0.0296	-0.0094	-0.0570	0.0958	-1.4671		
76	25.93	-0.10	4.2924	-6.0834	0.1120	-0.1458	-0.0250	0.0816	-1.4172		
77	26.22	-0.12	4.3655	-6.0078	0.0824	-0.2813	-0.0180	0.0779	-1.3762		
78	26.53	-0.12	4.4396	-6.0085	0.1087	-0.2861	0.0	0.0698	-1.3534		
79	26.83	-0.12	4.4659	-5.8363	-0.0282	0.1565	-0.0470	0.0576	-1.3069		
80	27.14	-0.12	4.6354	-5.9626	0.1112	-0.1867	0.0040	0.0579	-1.2863		
81	27.46	-0.12	4.7311	-5.9686	0.1579	-0.3620	0.0210	0.0515	-1.2616		
82	27.75	-0.11	4.8110	-6.0294	0.2169	-0.2906	0.0180	0.0524	-1.2533		
83	28.09	-0.12	4.9703	-5.8715	0.1231	-0.2633	0.0280	0.0437	-1.1813		
84	28.39	-0.10	5.1086	-5.9152	0.1535	0.0501	-0.0290	0.0463	-1.1579		
85	28.72	-0.11	5.2194	-5.8864	0.1811	-0.3145	-0.0010	0.0388	-1.1278		
86	29.04	-0.10	5.3507	-5.8462	0.2352	-0.3042	-0.0050	0.0356	-1.0926		
87	29.38	-0.09	5.5125	-5.8457	0.3196	-0.2734	0.0170	0.0141	-1.0605		
88	29.61	-0.03	5.4701	-5.5794	0.2656	0.6061	-0.0380	0.0120	-1.0200		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		2.0-92	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.77	0.0	0.0112	0.0017	0.0126	0.1518	1.1279	-0.1817	-0.0639	-0.0880	0.3517	0.4846
2	-2.48	0.0	0.0075	0.0008	0.0128	0.1007	1.7065	-0.1595	-0.0578	-0.0800	0.3624	0.5019
3	-1.68	0.0	0.0230	0.0042	0.0161	0.1626	0.6984	-0.1005	-0.0419	-0.0513	0.4169	0.5103
4	-1.31	0.02	0.0055	0.0011	0.0115	0.1158	1.2069	-0.0645	-0.0307	-0.0345	0.4760	0.5348
5	-0.73	0.0	0.0051	0.0007	0.0093	0.1373	1.8234	-0.0324	-0.0202	-0.0213	0.6235	0.6573
6	-0.21	0.01	0.0096	0.0031	0.0109	0.3229	1.1353	-0.0023	-0.0058	-0.0073	2.5217	3.1593
7	0.32	0.0	0.0204	0.0054	0.0102	0.2637	0.4999	0.0240	0.0103	0.0044	0.4292	0.1832
8	0.63	0.0	0.0110	0.0047	0.0104	0.4273	0.9423	0.0593	0.0236	0.0161	0.3980	0.3045
9	1.33	-0.03	0.0171	0.0069	0.0105	0.4035	0.6139	0.0872	0.0339	0.0317	0.3888	0.3630
10	1.82	-0.02	0.0277	0.0092	0.0111	0.3321	0.4018	0.1242	0.0446	0.0462	0.3591	0.3719
11	2.32	-0.03	0.0207	0.0055	0.0087	0.2657	0.4202	0.1576	0.0533	0.0631	0.3382	0.4005
12	2.79	-0.02	0.0168	0.0064	0.0098	0.3810	0.5832	0.1975	0.0640	0.0787	0.3241	0.3985
13	3.25	-0.04	0.0156	0.0050	0.0106	0.3205	0.6794	0.2435	0.0788	0.1000	0.3236	0.4108
14	3.72	-0.03	0.0146	0.0037	0.0103	0.2534	0.7031	0.2793	0.0881	0.1178	0.3154	0.4217
15	4.15	-0.02	0.0129	0.0036	0.0112	0.2791	0.8681	0.3134	0.0944	0.1332	0.3012	0.4251
16	4.61	-0.02	0.0159	0.0040	0.0129	0.2516	0.8112	0.3579	0.1014	0.1501	0.2833	0.4193
17	5.06	-0.03	0.0187	0.0034	0.0105	0.1818	0.5632	0.3901	0.1061	0.1664	0.2720	0.4265
18	5.52	-0.04	0.0183	0.0034	0.0131	0.1856	0.7157	0.4209	0.1140	0.1832	0.2708	0.4351
19	5.96	-0.05	0.0213	0.0036	0.0138	0.1690	0.6478	0.4427	0.1176	0.1927	0.2656	0.4353
20	6.42	-0.05	0.0271	0.0035	0.0131	0.1292	0.4845	0.4533	0.1227	0.1980	0.2707	0.4365
21	6.86	-0.03	0.0077	0.0021	0.0085	0.2727	1.1514	0.4427	0.1266	0.1969	0.2860	0.4448
22	7.30	-0.04	0.0083	0.0015	0.0112	0.1807	1.3453	0.4643	0.1285	0.2090	0.2768	0.4502
23	7.75	-0.05	0.0065	0.0022	0.0090	0.3492	1.4285	0.4718	0.1274	0.2097	0.2700	0.4445
24	8.18	-0.05	0.0024	0.0011	0.0090	0.4583	3.7499	0.4949	0.1271	0.2211	0.2568	0.4468
25	8.61	-0.06	0.0083	0.0015	0.0116	0.2289	1.6344	0.5238	0.1275	0.2352	0.2434	0.4491
26	9.00	-0.04	0.0065	0.0009	0.0106	0.1385	1.6255	0.5424	0.1286	0.2401	0.2371	0.4427
27	9.42	-0.06	0.0116	-0.0005	0.0117	-0.0455	1.0605	0.5606	0.1266	0.2566	0.2215	0.4453
28	9.84	-0.07	0.0353	-0.0026	0.0243	-0.0737	0.6873	0.6255	0.1275	0.2788	0.2038	0.4458
29	10.22	-0.07	0.0309	-0.0027	0.0240	-0.0874	0.7766	0.6412	0.1278	0.2840	0.1993	0.4429
30	10.64	-0.05	0.0218	-0.0030	0.0235	-0.1079	0.8440	0.6622	0.1273	0.2945	0.1922	0.4447
31	11.02	-0.08	0.0577	-0.0021	0.0338	-0.0364	0.5862	0.6738	0.1221	0.2968	0.1812	0.4405
32	11.41	-0.05	0.0304	-0.0003	0.0203	-0.0099	0.6687	0.6133	0.0788	0.2570	0.1285	0.4190
33	11.76	-0.07	0.0288	-0.0004	0.0206	-0.0139	0.7221	0.6200	0.0774	0.2615	0.1246	0.4218
34	12.14	-0.08	0.0282	-0.0013	0.0195	-0.0461	0.7056	0.6458	0.0733	0.2702	0.1135	0.4184
35	12.51	-0.08	0.0258	-0.0016	0.0246	-0.0620	0.9534	0.6667	0.0716	0.2800	0.1074	0.4199
36	12.86	-0.08	0.0176	-0.0037	0.0196	-0.2102	1.1116	0.6992	0.0676	0.2936	0.0967	0.4195
37	13.21	-0.07	0.0117	-0.0050	0.0130	-0.4274	1.1110	0.7167	0.0653	0.2978	0.0911	0.4155
38	13.58	-0.08	0.0265	-0.0024	0.0252	-0.0906	0.9521	0.7404	0.0635	0.3090	0.0858	0.4174
39	13.91	-0.08	-0.0004	-0.0061	0.0095	15.2500	-23.6668	0.7683	0.0607	0.3171	0.0792	0.4139
40	14.24	-0.09	0.0105	-0.0061	0.0148	-0.5810	1.4094	0.7930	0.0593	0.3304	0.0748	0.4167
41	14.63	-0.09	0.0027	-0.0072	0.0130	-2.6667	4.8147	0.8048	0.0585	0.3367	0.0727	0.4183
42	14.95	-0.08	0.0003	-0.0072	0.0092	-24.0000	30.6665	0.8261	0.0576	0.3448	0.0697	0.4173
43	15.32	-0.07	0.0007	-0.0076	0.0142	-10.8571	20.3332	0.8455	0.0569	0.3548	0.0673	0.4197
44	15.66	-0.08	-0.0011	-0.0078	0.0056	7.6909	-5.1213	0.8586	0.0567	0.3579	0.0660	0.4168
45	15.99	-0.09	0.0067	-0.0073	0.0148	-1.0896	2.2138	0.8769	0.0563	0.3659	0.0642	0.4173
46	16.30	-0.10	-0.0152	-0.0093	0.0035	0.6118	-0.2326	0.8840	0.0563	0.3704	0.0637	0.4190

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CNLF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION		
6 2.092 1.7			0.0	0.2WOF16	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	LB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.65	-0.09	-0.0168	-0.0101	-0.0008	0.6012	0.0475	0.8972	0.0559	0.3734	0.0623	0.4161
48	16.96	-0.08	-0.0179	-0.0101	-0.0032	0.5642	0.1768	0.9096	0.0559	0.3800	0.0615	0.4178
49	17.30	-0.10	-0.0026	-0.0088	0.0099	3.3846	-3.8206	0.9214	0.0552	0.3875	0.0599	0.4206
50	17.62	-0.08	-0.0164	-0.0105	0.0050	0.6402	-0.3070	0.9236	0.0549	0.3878	0.0594	0.4198
51	17.96	-0.09	0.0101	-0.0077	0.0195	-0.7624	1.9669	0.9477	0.0547	0.3974	0.0577	0.4193
52	18.29	-0.09	-0.0169	-0.0115	0.0030	0.6805	-0.1757	0.9482	0.0552	0.3947	0.0582	0.4162
53	18.62	-0.10	-0.0023	-0.0092	0.0160	4.0000	-6.9711	0.9574	0.0546	0.4024	0.0570	0.4203
54	18.97	-0.10	-0.0026	-0.0103	0.0126	3.9615	-4.8591	0.9639	0.0546	0.4033	0.0566	0.4184
55	19.26	-0.09	-0.0248	-0.0119	-0.0084	0.4798	0.3372	0.9547	0.0547	0.3981	0.0573	0.4170
56	19.60	-0.09	-0.0313	-0.0119	-0.0158	0.3802	-0.5057	0.9297	0.0559	0.3804	0.0601	0.4092
57	19.94	-0.09	-0.0129	-0.0121	0.0028	0.9380	-0.2172	0.9609	0.0550	0.4020	0.0572	0.4183
58	20.28	-0.09	-0.0340	-0.0126	-0.0114	0.3706	0.3362	0.9506	0.0548	0.3970	0.0576	0.4176
59	20.61	-0.10	-0.0298	-0.0129	-0.0103	0.4329	0.3466	0.9464	0.0548	0.3945	0.0579	0.4168
60	20.97	-0.10	0.0057	-0.0155	0.0094	-2.7193	1.6490	0.9666	0.0541	0.4015	0.0560	0.4154
61	21.28	-0.11	0.0116	-0.0141	0.0268	-1.2155	2.3074	0.9718	0.0536	0.4173	0.0552	0.4294
62	21.59	-0.09	-0.0135	-0.0150	0.0015	1.1111	-0.1112	0.9459	0.0539	0.3998	0.0570	0.4227
63	21.91	-0.09	-0.0292	-0.0141	-0.0113	0.4829	0.3880	0.9307	0.0554	0.3878	0.0595	0.4167
64	22.21	-0.11	-0.0001	-0.0156	0.0119	22.2857	-16.9525	0.9690	0.0539	0.4106	0.0556	0.4237
65	22.53	-0.12	-0.0175	-0.0110	-0.0137	0.6286	0.7846	0.9359	0.0561	0.3867	0.0599	0.4131
66	22.83	-0.10	0.0043	-0.0153	0.0098	-3.5581	2.2867	0.9476	0.0532	0.4202	0.0533	0.4212
67	23.16	-0.11	-0.0041	-0.0184	0.0100	4.4678	-2.4473	1.0091	0.0525	0.4245	0.0520	0.4207
68	23.46	-0.11	-0.0778	-0.0073	-0.0281	0.2626	1.0095	0.9266	0.0571	0.3868	0.0616	0.4174
69	23.78	-0.10	-0.0269	-0.0150	-0.0124	0.5576	0.4596	0.9758	0.0546	0.4096	0.0560	0.4197
70	24.12	-0.12	-0.0054	-0.0114	-0.0056	2.1111	1.0369	0.9803	0.0550	0.4103	0.0561	0.4186
71	24.41	-0.11	-0.0036	-0.0115	-0.0084	3.1544	2.3332	0.9762	0.0554	0.4074	0.0568	0.4173
72	24.74	-0.09	-0.0059	-0.0086	-0.0076	1.4576	1.2824	0.9925	0.0549	0.4139	0.0553	0.4170
73	25.05	-0.10	-0.0224	-0.0162	-0.0075	0.7232	0.3332	1.0099	0.0541	0.4204	0.0536	0.4163
74	25.33	-0.12	0.0155	-0.0085	0.0010	-0.5484	0.0622	0.9992	0.0550	0.4193	0.0550	0.4197
75	25.62	-0.10	-0.0169	-0.0151	-0.0084	0.8535	0.4989	1.0103	0.0543	0.4224	0.0534	0.4157
76	25.93	-0.10	0.0345	-0.0024	0.0061	-0.0696	0.1767	0.9970	0.0560	0.4174	0.0562	0.4187
77	26.22	-0.12	0.0557	0.0021	0.0180	0.0377	0.3224	1.0174	0.0555	0.4248	0.0546	0.4175
78	26.53	-0.12	0.0343	-0.0040	0.0085	-0.1106	0.2487	1.0273	0.0552	0.4299	0.0537	0.4185
79	26.83	-0.12	0.0044	-0.0052	0.0028	-1.1818	0.6287	1.0266	0.0555	0.4279	0.0541	0.4168
80	27.14	-0.12	0.0618	0.0053	0.0226	0.0858	0.3056	1.0413	0.0549	0.4356	0.0527	0.4183
81	27.46	-0.12	0.0973	0.0125	0.0420	0.1285	0.4319	1.0443	0.0549	0.4360	0.0526	0.4175
82	27.75	-0.11	0.0835	0.0098	0.0379	0.1174	0.4542	1.0585	0.0537	0.4419	0.0507	0.4175
83	28.09	-0.12	0.0949	0.0102	0.0321	0.1075	0.3385	1.0619	0.0536	0.4468	0.0505	0.4208
84	28.39	-0.10	0.0434	0.0050	0.0212	0.1152	0.4876	1.0746	0.0523	0.4499	0.0487	0.4186
85	28.72	-0.11	0.0573	0.0054	0.0187	0.0942	0.3262	1.0804	0.0525	0.4520	0.0486	0.4184
86	29.04	-0.10	0.0659	0.0092	0.0302	0.1396	0.4576	1.0891	0.0519	0.4568	0.0477	0.4194
87	29.38	-0.09	0.0926	0.0156	0.0411	0.1605	0.4434	1.0925	0.0516	0.4569	0.0472	0.4182
88	29.61	-0.03	0.0427	0.0030	0.0136	0.0703	0.3192	1.0972	0.0510	0.4588	0.0465	0.4182

PAGE 3 OF 3
 SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		2.0	0.92	1.7	0.0	0.2WCF16	0.0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
1	-2.77	0.0	0.0136	0.0078	0.0091	0.5735	0.6715	-0.2429	-0.0615	-0.0742	0.2532	0.3056
2	-2.48	0.0	0.0134	0.0080	0.0102	0.5970	0.7586	-0.2298	-0.0578	-0.0694	0.2515	0.3019
3	-1.88	0.0	0.0160	0.0091	0.0112	0.5667	0.7320	-0.1738	-0.0432	-0.0458	0.2486	0.2636
4	-1.31	0.02	0.0192	0.0087	0.0111	0.4531	0.5780	-0.1280	-0.0301	-0.0241	0.2352	0.1879
5	-0.73	0.0	0.0148	0.0080	0.0111	0.5405	0.7321	-0.0908	-0.0181	-0.0081	0.1993	0.0887
6	-0.21	0.01	0.0193	0.0083	0.0121	0.4301	0.6286	-0.0612	-0.0060	0.0043	0.0980	-0.0704
7	0.32	0.0	0.0236	0.0089	0.0136	0.3771	0.5747	-0.0333	0.0050	0.0155	-0.1502	-0.4656
8	0.83	0.0	0.0293	0.0097	0.0154	0.3311	0.5243	0.0004	0.0169	0.0307	2.6406	4.8020
9	1.33	-0.03	0.0364	0.0108	0.0174	0.2967	0.4788	0.0381	0.0260	0.0441	0.6824	1.1574
10	1.82	-0.02	0.0280	0.0087	0.0155	0.3107	0.5246	0.0698	0.0349	0.0586	0.5000	0.8389
11	2.32	-0.03	0.0290	0.0094	0.0181	0.3241	0.6229	0.1196	0.0486	0.0805	0.4064	0.6727
12	2.79	-0.02	0.0323	0.0094	0.0172	0.2910	0.5314	0.1512	0.0575	0.0966	0.3803	0.6388
13	3.25	-0.04	0.0323	0.0094	0.0172	0.2910	0.5314	0.1978	0.0739	0.1158	0.3564	0.5855
14	3.72	-0.03	0.0295	0.0084	0.0163	0.2847	0.5336	0.2374	0.0811	0.1332	0.3416	0.5611
15	4.15	-0.02	0.0367	0.0095	0.0181	0.2569	0.4940	0.2757	0.0886	0.1495	0.3214	0.5421
16	4.61	-0.02	0.0326	0.0084	0.0163	0.2577	0.4989	0.3068	0.0944	0.1643	0.3077	0.5356
17	5.06	-0.03	0.0426	0.0100	0.0188	0.2347	0.4412	0.3549	0.1007	0.1867	0.2837	0.5259
18	5.52	-0.04	0.0327	0.0079	0.0163	0.2416	0.4984	0.3790	0.1053	0.2001	0.2778	0.5279
19	5.96	-0.03	0.0366	0.0092	0.0192	0.2514	0.5245	0.4166	0.1093	0.2150	0.2624	0.5161
20	6.42	-0.05	0.0381	0.0095	0.0190	0.2493	0.4986	0.4421	0.1110	0.2271	0.2511	0.5137
21	6.86	-0.03	0.0422	0.0103	0.0213	0.2441	0.5038	0.4790	0.1166	0.2477	0.2434	0.5171
22	7.30	-0.04	0.0473	0.0124	0.0249	0.2622	0.5256	0.4942	0.1190	0.2563	0.2408	0.5186
23	7.75	-0.05	0.0437	0.0104	0.0216	0.2380	0.4934	0.5267	0.1220	0.2700	0.2316	0.5126
24	8.18	-0.05	0.0463	0.0110	0.0234	0.2376	0.5060	0.5424	0.1232	0.2789	0.2271	0.5143
25	8.61	-0.06	0.0465	0.0108	0.0226	0.2323	0.4859	0.5447	0.1273	0.2822	0.2337	0.5181
26	9.00	-0.04	0.0478	0.0110	0.0238	0.2301	0.4985	0.5676	0.1299	0.2944	0.2289	0.5187
27	9.42	-0.06	0.0475	0.0115	0.0248	0.2421	0.5227	0.5725	0.1336	0.2949	0.2334	0.5150
28	9.84	-0.07	0.0465	0.0108	0.0226	0.2323	0.4859	0.5133	0.1240	0.2713	0.2513	0.5286
29	10.22	-0.07	0.0492	0.0111	0.0256	0.2256	0.5080	0.5375	0.1282	0.2808	0.2385	0.5224
30	10.64	-0.05	0.0473	0.0118	0.0260	0.2495	0.5489	0.5541	0.1246	0.2882	0.2249	0.5202
31	11.02	-0.08	0.0410	0.0113	0.0283	0.2756	0.6893	0.5022	0.0744	0.2546	0.1581	0.5070
32	11.41	-0.05	0.0414	0.0110	0.0259	0.2657	0.6255	0.5256	0.0772	0.2634	0.1469	0.5012
33	11.76	-0.07	0.0500	0.0123	0.0283	0.2460	0.5652	0.5382	0.0750	0.2673	0.1394	0.4967
34	12.14	-0.08	0.0499	0.0124	0.0286	0.2485	0.5737	0.5626	0.0722	0.2799	0.1283	0.4975
35	12.51	-0.08	0.0569	0.0141	0.0307	0.2478	0.5388	0.5812	0.0695	0.2846	0.1196	0.4896
36	12.86	-0.08	0.0482	0.0128	0.0291	0.2656	0.6029	0.6112	0.0658	0.2989	0.1077	0.4890
37	13.21	-0.07	0.0408	0.0121	0.0283	0.2566	0.6935	0.6201	0.0651	0.3027	0.1050	0.4882
38	13.58	-0.08	0.0467	0.0125	0.0293	0.2677	0.6266	0.6440	0.0614	0.3137	0.0953	0.4871
39	13.91	-0.08	0.0476	0.0138	0.0318	0.2899	0.6672	0.6768	0.0597	0.3289	0.0882	0.4860
40	14.24	-0.09	0.0544	0.0145	0.0331	0.2641	0.6028	0.6840	0.0586	0.3335	0.0857	0.4876
41	14.63	-0.09	0.0491	0.0139	0.0327	0.2831	0.6652	0.7058	0.0578	0.3410	0.0819	0.4831
42	14.95	-0.08	0.0495	0.0135	0.0303	0.2727	0.6120	0.7253	0.0571	0.3511	0.0787	0.4840
43	15.32	-0.07	0.0494	0.0133	0.0311	0.2692	0.6288	0.7419	0.0586	0.3575	0.0763	0.4819
44	15.64	-0.08	0.0465	0.0130	0.0304	0.2796	0.6536	0.7632	0.0562	0.3653	0.0736	0.4787
45	15.99	-0.09	0.0478	0.0132	0.0318	0.2762	0.6658	0.7660	0.0558	0.3678	0.0728	0.4802
46	16.30	-0.10	0.0506	0.0142	0.0326	0.2806	0.6435	0.7647	0.0557	0.3775	0.0710	0.4810

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 2 0.92 1.7			0.0	B2W0F16	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	LH3	C83	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
47	16.65	-0.09	0.0475	0.0139	0.0325	0.2926	0.6932	0.7522	0.0534	0.3805	0.0699	0.4803
48	16.96	-0.08	0.0451	0.0128	0.0297	0.2838	0.6592	0.8060	0.0554	0.3866	0.0687	0.4796
49	17.30	-0.10	0.0449	0.0131	0.0317	0.2918	0.7052	0.8114	0.0555	0.3883	0.0684	0.4785
50	17.62	-0.08	0.0454	0.0123	0.0297	0.2709	0.6548	0.8133	0.0553	0.3926	0.0680	0.4827
51	17.96	-0.09	0.0465	0.0127	0.0325	0.2725	0.6937	0.8100	0.0555	0.3908	0.0685	0.4825
52	18.29	-0.09	0.0434	0.0130	0.0320	0.2595	0.7364	0.8221	0.0552	0.3969	0.0671	0.4828
53	18.62	-0.10	0.0466	0.0127	0.0321	0.2725	0.6894	0.8280	0.0546	0.3978	0.0659	0.4804
54	18.97	-0.10	0.0523	0.0137	0.0341	0.2620	0.6525	0.8148	0.0552	0.3915	0.0677	0.4805
55	19.26	-0.09	0.0536	0.0141	0.0354	0.2631	0.6597	0.8411	0.0547	0.4037	0.0650	0.4799
56	19.60	-0.09	0.0567	0.0148	0.0359	0.2610	0.6330	0.8654	0.0540	0.4142	0.0624	0.4786
57	19.94	-0.09	0.0434	0.0124	0.0320	0.2825	0.7296	0.8381	0.0547	0.4006	0.0653	0.4779
58	20.28	-0.09	0.0508	0.0140	0.0355	0.2756	0.6994	0.8540	0.0544	0.4099	0.0637	0.4799
59	20.61	-0.10	0.0567	0.0149	0.0365	0.2628	0.6436	0.8365	0.0540	0.4084	0.0646	0.4883
60	20.97	-0.10	0.0553	0.0142	0.0370	0.2568	0.6696	0.7993	0.0560	0.3809	0.0708	0.4766
61	21.28	-0.11	0.0529	0.0128	0.0346	0.2420	0.6546	0.7562	0.0574	0.3763	0.0759	0.4976
62	21.59	-0.09	0.0553	0.0135	0.0354	0.2419	0.6343	0.7341	0.0557	0.3912	0.0701	0.4926
63	21.91	-0.09	0.0594	0.0135	0.0361	0.2733	0.7300	0.8442	0.0543	0.4098	0.0643	0.4854
64	22.21	-0.11	0.0496	0.0131	0.0358	0.2641	0.7223	0.7995	0.0566	0.3954	0.0708	0.4946
65	22.53	-0.12	0.0610	0.0153	0.0399	0.2508	0.6545	0.8814	0.0538	0.4201	0.0610	0.4766
66	22.83	-0.10	0.0544	0.0131	0.0356	0.2408	0.6549	0.8204	0.0565	0.4049	0.0689	0.4935
67	23.16	-0.11	0.0595	0.0148	0.0412	0.2487	0.6929	0.8100	0.0574	0.4029	0.0709	0.4974
68	23.46	-0.11	0.0604	0.0163	0.0427	0.2699	0.7074	0.9125	0.0514	0.4447	0.0569	0.4873
69	23.78	-0.10	0.0612	0.0152	0.0399	0.2484	0.6518	0.8747	0.0547	0.4257	0.0625	0.4866
70	24.12	-0.12	0.0594	0.0152	0.0413	0.2559	0.6952	0.8825	0.0547	0.4285	0.0620	0.4855
71	24.41	-0.11	0.0612	0.0145	0.0402	0.2435	0.6567	0.8852	0.0543	0.4333	0.0613	0.4895
72	24.74	-0.09	0.0600	0.0143	0.0393	0.2383	0.6549	0.9058	0.0539	0.4383	0.0595	0.4839
73	25.05	-0.10	0.0555	0.0140	0.0391	0.2523	0.7044	0.8827	0.0552	0.4332	0.0625	0.4908
74	25.33	-0.12	0.0611	0.0151	0.0420	0.2471	0.6867	0.8949	0.0549	0.4404	0.0613	0.4921
75	25.62	-0.10	0.0596	0.0148	0.0422	0.2483	0.7074	0.9047	0.0550	0.4444	0.0608	0.4912
76	25.93	-0.10	0.0569	0.0144	0.0407	0.2551	0.7146	0.9242	0.0545	0.4535	0.0587	0.4881
77	26.22	-0.12	0.0613	0.0148	0.0418	0.2414	0.6823	0.9351	0.0539	0.4566	0.0576	0.4883
78	26.53	-0.12	0.0637	0.0161	0.0452	0.2527	0.7100	0.9381	0.0540	0.4624	0.0576	0.4929
79	26.83	-0.12	0.0553	0.0139	0.0407	0.2514	0.7365	0.9501	0.0539	0.4615	0.0567	0.4857
80	27.14	-0.12	0.0562	0.0149	0.0433	0.2651	0.7709	0.9608	0.0529	0.4748	0.0546	0.4901
81	27.46	-0.12	0.0607	0.0152	0.0444	0.2504	0.7319	0.9766	0.0529	0.4766	0.0542	0.4880
82	27.75	-0.11	0.0540	0.0150	0.0438	0.2542	0.7417	0.9828	0.0519	0.4811	0.0528	0.4895
83	28.09	-0.12	0.0585	0.0157	0.0445	0.2684	0.7674	0.9904	0.0516	0.4845	0.0521	0.4892
84	28.39	-0.10	0.0614	0.0153	0.0452	0.2492	0.7355	0.9905	0.0514	0.4846	0.0519	0.4893
85	28.72	-0.11	0.0555	0.0148	0.0428	0.2667	0.7711	0.9952	0.0510	0.4868	0.0512	0.4892
86	29.04	-0.10	0.0679	0.0172	0.0495	0.2533	0.7294	0.9986	0.0508	0.4911	0.0509	0.4918
87	29.38	-0.09	0.0577	0.0154	0.0472	0.2669	0.8165	1.0070	0.0504	0.4921	0.0500	0.4887
88	29.61	-0.03	0.0619	0.0161	0.0481	0.2601	0.7775	1.0091	0.0499	0.4950	0.0495	0.4906

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	XX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	3	0.97	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.37	-0.02	-0.3807	1.0838	0.1451	-0.1881	-0.0050	0.2222	-2.8473		
2	-1.77	-0.01	-0.3026	0.8495	0.0385	-0.0079	-0.0060	0.2252	-2.8078		
3	-1.37	-0.04	-0.2137	0.5971	0.0748	-0.1677	-0.0020	0.2291	-2.7945		
4	-0.77	-0.03	-0.1007	0.3509	0.0473	-0.2122	-0.0020	0.2345	-3.4854		
5	-0.25	-0.06	-0.0198	0.1147	0.0077	-0.1118	-0.0010	0.2304	-5.7939		
6	0.29	0.0	0.0686	-0.0980	0.0579	-0.1540	-0.0030	0.2355	-1.4292		
7	0.80	-0.07	0.1428	-0.3129	0.1144	-0.2401	-0.0030	0.2305	-2.1913		
8	1.31	-0.11	0.2581	-0.5713	0.0500	-0.2350	-0.0020	0.2392	-2.2136		
9	1.80	-0.02	0.3345	-0.7712	0.1152	-0.2063	-0.0030	0.2370	-2.3058		
10	2.29	-0.03	0.4375	-1.0485	0.0602	-0.1605	-0.0050	0.2352	-2.3963		
11	2.75	-0.01	0.5215	-1.3061	0.1520	-0.2018	-0.0050	0.2451	-2.6193		
12	3.25	-0.01	0.6502	-1.6594	0.1224	-0.2303	-0.0050	0.2456	-2.5211		
13	3.69	-0.01	0.7128	-1.9308	0.0978	-0.1329	-0.0080	0.2481	-2.7007		
14	4.13	-0.06	0.7487	-2.1580	0.0336	-0.2250	-0.0060	0.2555	-2.7020		
15	4.61	-0.13	0.9461	-2.5333	0.0532	-0.2814	-0.0020	0.2526	-2.6746		
16	5.05	-0.05	0.9744	-2.6879	-0.0051	-0.0808	0.0070	0.2573	-2.7506		
17	5.50	-0.12	1.1140	-3.0123	0.2269	-0.2666	0.0	0.2539	-2.7042		
18	5.92	-0.05	1.1872	-3.3429	0.0372	-0.2580	0.0010	0.2628	-2.8157		
19	6.37	-0.05	1.2047	-3.6234	0.1676	-0.1596	-0.0070	0.2605	-2.8203		
20	6.83	-0.04	1.4052	-3.9180	0.0795	-0.0039	-0.0060	0.2736	-2.7882		
21	7.28	-0.02	1.4736	-4.1058	0.0814	-0.1899	0.0010	0.2781	-2.7662		
22	7.70	-0.09	1.5538	-4.2780	-0.0320	-0.0352	0.0040	0.2735	-2.7533		
23	8.16	-0.12	1.6541	-4.4504	-0.0167	-0.1946	0.0140	0.2683	-2.6942		
24	8.58	-0.11	1.6616	-4.5649	-0.0237	-0.0762	0.0230	0.2650	-2.7473		
25	8.98	-0.10	1.7210	-4.5701	-0.0801	0.1051	0.0330	0.2508	-2.6555		
26	9.39	-0.03	1.8225	-4.6022	0.1402	0.0203	0.0180	0.2505	-2.5253		
27	9.82	-0.07	1.7603	-4.6611	-0.0607	0.0300	0.0570	0.2561	-2.6474		
28	10.21	-0.03	1.8589	-4.7921	-0.0273	0.1802	0.0490	0.2580	-2.5780		
29	10.61	-0.12	1.9097	-4.8264	-0.0081	0.1033	0.0370	0.2575	-2.5272		
30	11.02	-0.11	1.9476	-4.6235	-0.0429	-0.1699	-0.0100	0.2553	-2.3739		
31	11.40	-0.02	2.0092	-4.7277	-0.0031	-0.2636	-0.0290	0.2629	-2.3530		
32	11.76	-0.07	2.0514	-4.8727	0.0884	-0.2037	-0.0400	0.2571	-2.3753		
33	12.11	-0.12	2.1403	-5.0332	0.0902	-0.1043	-0.0300	0.2644	-2.3516		
34	12.50	-0.09	2.1143	-4.8188	0.1074	-0.2403	-0.0260	0.2667	-2.2791		
35	12.84	-0.08	2.1460	-4.9312	0.0006	-0.1708	-0.0280	0.2627	-2.2978		
36	13.21	-0.08	2.2498	-5.0425	0.0128	-0.0719	-0.0280	0.2597	-2.2413		
37	13.57	-0.07	2.3294	-5.2519	0.0368	-0.1325	-0.0290	0.2538	-2.2546		
38	13.93	-0.12	2.4051	-5.3659	0.1141	-0.1307	-0.0320	0.2642	-2.2310		
39	14.25	-0.12	2.4423	-5.5249	-0.0713	-0.0172	-0.0320	0.2517	-2.2622		
40	14.63	-0.14	2.4852	-5.6040	-0.1399	0.0579	-0.0210	0.2459	-2.2550		
41	14.96	-0.11	2.6545	-5.9279	-0.0215	-0.0179	-0.0350	0.2491	-2.2332		
42	15.31	-0.07	2.7267	-6.0701	0.0146	-0.0344	-0.0370	0.2295	-2.2202		
43	15.66	-0.11	2.8440	-6.2303	-0.0984	0.0318	-0.0180	0.2176	-2.1907		
44	15.97	-0.05	2.8826	-6.3934	0.1555	0.0147	-0.0480	0.2188	-2.2179		
45	16.30	-0.14	3.0127	-6.5845	-0.0465	0.0107	-0.0460	0.2158	-2.1856		
46	16.63	-0.09	3.0665	-6.6878	-0.0981	0.0893	-0.0450	0.2179	-2.1809		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	3.097	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP	
47	16.97	-0.12	3.1719	-6.8173	-0.0208	0.0541	-0.0540	0.2119	-2.1493	
48	17.28	-0.12	3.2047	-6.9422	0.0288	-0.0343	-0.0520	0.2028	-2.1663	
49	17.61	-0.12	3.2787	-6.9608	-0.2132	0.2794	-0.0560	0.1997	-2.1231	
50	17.94	-0.09	3.3452	-7.0839	-0.0538	0.0693	-0.0560	0.1969	-2.1177	
51	18.25	-0.12	3.4233	-7.2672	-0.1127	-0.0902	-0.0560	0.1840	-2.1229	
52	18.62	-0.10	3.5139	-7.3442	-0.0953	0.2144	-0.0510	0.1880	-2.0900	
53	18.95	-0.09	3.5746	-7.3412	0.0244	0.0728	-0.0580	0.1657	-2.0537	
54	19.27	-0.07	3.6232	-7.3712	-0.0676	0.2866	-0.0570	0.1668	-2.0344	
55	19.60	-0.11	3.7489	-7.5042	-0.0196	0.2584	-0.0640	0.1627	-2.0017	
56	19.94	-0.08	3.7985	-7.5296	0.0044	0.2678	-0.0680	0.1490	-1.9823	
57	20.26	-0.07	3.8970	-7.6565	-0.0431	0.2693	-0.0650	0.1535	-1.9647	
58	20.58	-0.14	3.9110	-7.6261	-0.1383	0.0696	-0.0640	0.1341	-1.9494	
59	20.96	-0.12	4.0758	-7.7028	-0.0816	0.1022	-0.0740	0.1349	-1.8849	
60	21.27	-0.10	4.0870	-7.7415	-0.1033	0.2106	-0.0780	0.1261	-1.8942	
61	21.61	-0.11	4.1867	-7.7091	-0.0573	0.1422	-0.0800	0.1199	-1.8413	
62	21.91	-0.10	4.1956	-7.6875	-0.0282	0.2075	-0.0850	0.1104	-1.8323	
63	22.22	-0.12	4.2880	-7.7430	0.0161	0.0155	-0.0750	0.1133	-1.8057	
64	22.53	-0.10	4.3256	-7.6507	0.1291	-0.0587	-0.0990	0.1053	-1.7687	
65	22.87	-0.10	4.4025	-7.6153	-0.0051	-0.0609	-0.1100	0.0943	-1.7298	
66	23.18	-0.08	4.4581	-7.6452	-0.0188	-0.1077	-0.0390	0.0984	-1.7149	
67	23.52	-0.18	4.5407	-7.5188	-0.0886	-0.1659	-0.0710	0.0818	-1.6559	
68	23.82	-0.11	4.5525	-7.4624	0.0007	-0.1200	-0.0980	0.0970	-1.6342	
69	24.14	-0.13	4.6874	-7.3352	0.1010	-0.1194	-0.0130	0.0939	-1.5649	
70	24.48	-0.11	4.6285	-7.2658	-0.0222	-0.1069	-0.1240	0.0837	-1.5698	
71	24.80	-0.12	4.7618	-7.2414	-0.1108	-0.0409	-0.2190	0.0852	-1.5207	
72	25.12	-0.09	4.7659	-7.0422	0.0566	-0.0652	-0.0610	0.0760	-1.4776	
73	25.39	-0.10	4.7714	-6.9799	0.0787	-0.1632	-0.0400	0.0639	-1.4629	
74	25.71	-0.13	4.9927	-7.0588	0.0262	-0.0995	-0.0540	0.0666	-1.4138	
75	26.01	-0.12	5.0045	-6.8524	-0.0153	0.0524	-0.0770	0.0640	-1.3692	
76	26.33	-0.11	5.0711	-6.6586	-0.0294	-0.1058	-0.1160	0.0653	-1.3130	
77	26.63	-0.12	5.1606	-6.5690	0.0794	-0.2011	-0.0290	0.0575	-1.2729	
78	26.93	-0.12	5.1674	-6.4655	0.0082	0.0485	-0.0500	0.0485	-1.2512	
79	27.26	-0.10	5.2666	-6.4004	0.0531	-0.0833	-0.0290	0.0414	-1.2153	
80	27.56	-0.12	5.3345	-6.4124	-0.0642	0.2019	-0.0670	0.0412	-1.2021	
81	27.87	-0.11	5.4379	-6.3922	0.0515	-0.0211	-0.0140	0.0388	-1.1755	
82	28.17	-0.11	5.4605	-6.1579	0.0685	0.0671	-0.0190	0.0337	-1.1277	
83	28.51	-0.10	5.6437	-6.1014	0.0947	-0.2066	0.0210	0.0285	-1.0811	
84	28.81	-0.13	5.6273	-5.9414	0.0170	-0.0278	-0.0330	0.0209	-1.0558	
85	29.13	-0.12	5.8105	-6.0080	0.0692	-0.1129	-0.0270	0.0108	-1.0340	
86	29.46	-0.12	5.9723	-5.9936	0.0783	-0.0586	0.0150	0.0135	-1.0036	
87	29.70	-0.10	5.9117	-6.0067	0.1126	-0.1186	-0.0090	0.0132	-1.0161	
88	29.74	-0.09	6.0605	-5.8071	0.0197	0.1484	-0.0270	0.0094	-0.9582	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 3 0.97 1.7			0.0	82WOF16	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XLPP1	YCLPP1	CNF2	CH2	CB2	XCLPP2	YCLPP2
1	-2.37	-0.02	0.0315	0.0014	0.0082	0.0444	0.2602	-0.1344	-0.0469	-0.0737	0.3490	0.5482
2	-1.77	-0.01	0.0275	0.0014	0.0073	0.0509	0.2641	-0.1014	-0.0368	-0.0604	0.3629	0.5955
3	-1.37	-0.04	0.0274	0.0011	0.0063	0.0401	0.2310	-0.0717	-0.0258	-0.0460	0.3598	0.6414
4	-0.77	-0.03	0.0306	0.0016	0.0062	0.0523	0.2025	-0.0302	-0.0145	-0.0260	0.4801	0.7259
5	-0.25	-0.06	0.0370	0.0036	0.0108	0.0973	0.2927	0.0024	-0.0038	-0.0085	-1.5833	-3.5418
6	0.29	0.0	0.0312	0.0029	0.0053	0.0529	0.2980	0.0369	0.0051	0.0046	0.1382	0.1245
7	0.60	-0.07	0.0360	0.0043	0.0120	0.1194	0.3332	0.0681	0.0144	0.0204	0.2115	0.2994
8	1.31	-0.11	0.0406	0.0052	0.0119	0.1275	0.2915	0.1110	0.0262	0.0397	0.2360	0.3575
9	1.80	-0.02	0.0266	0.0020	0.0073	0.0752	0.2731	0.1334	0.0353	0.0509	0.2646	0.3812
10	2.29	-0.03	0.0362	0.0030	0.0133	0.0829	0.3664	0.1798	0.0511	0.0732	0.2842	0.4072
11	2.75	-0.01	0.0321	0.0031	0.0130	0.0966	0.4049	0.2263	0.0603	0.0914	0.2665	0.4039
12	3.25	-0.01	0.0373	0.0043	0.0123	0.1153	0.3305	0.2634	0.0673	0.1082	0.2555	0.4107
13	3.69	-0.01	0.0269	0.0030	0.0106	0.1115	0.3927	0.3048	0.0726	0.1254	0.2382	0.4113
14	4.13	-0.06	0.0301	0.0039	0.0121	0.1296	0.4030	0.3325	0.0760	0.1384	0.2286	0.4162
15	4.61	-0.13	0.0280	0.0032	0.0127	0.1143	0.4546	0.3801	0.0803	0.1575	0.2113	0.4142
16	5.05	-0.05	0.0364	0.0033	0.0124	0.0907	0.3415	0.4062	0.0822	0.1745	0.2024	0.4295
17	5.50	-0.12	0.0371	0.0033	0.0165	0.0889	0.4545	0.4483	0.0635	0.1699	0.1863	0.4236
18	5.92	-0.05	0.0351	0.0023	0.0160	0.0655	0.4557	0.4957	0.0847	0.2140	0.1709	0.4317
19	6.37	-0.05	0.0245	0.0004	0.0126	0.0163	0.5128	0.5279	0.0667	0.2297	0.1642	0.4351
20	6.83	-0.04	0.0244	0.0004	0.0126	0.0164	0.5176	0.5628	0.0845	0.2436	0.1590	0.4329
21	7.28	-0.02	0.0313	0.0006	0.0141	0.0192	0.4514	0.5877	0.0926	0.2596	0.1576	0.4418
22	7.70	-0.09	0.0240	0.0003	0.0148	0.0125	0.6165	0.6106	0.0981	0.2715	0.1607	0.4446
23	8.16	-0.12	0.0267	0.0004	0.0154	0.0150	0.5767	0.6263	0.1007	0.2800	0.1608	0.4471
24	8.58	-0.11	0.0291	0.0003	0.0167	0.0103	0.5738	0.6388	0.1069	0.2864	0.1673	0.4483
25	8.98	-0.10	0.0238	0.0	0.0147	0.0	0.6169	0.6241	0.1141	0.2839	0.1628	0.4548
26	9.39	-0.03	0.0202	0.0008	0.0152	0.0396	0.7540	0.6088	0.1181	0.2786	0.1940	0.4576
27	9.82	-0.07	0.0077	0.0009	0.0081	0.1169	1.0475	0.6086	0.1176	0.2767	0.1932	0.4546
28	10.21	-0.03	0.0112	0.0003	0.0091	0.0268	0.8154	0.6382	0.1180	0.2908	0.1849	0.4556
29	10.61	-0.12	0.0060	0.0003	0.0074	0.0500	1.2332	0.6604	0.1182	0.3008	0.1790	0.4554
30	11.02	-0.11	0.0255	-0.0028	0.0166	-0.1098	0.6509	0.6867	0.1168	0.3138	0.1701	0.4570
31	11.40	-0.02	0.0287	-0.0032	0.0218	-0.1115	0.7583	0.7264	0.1171	0.3302	0.1612	0.4546
32	11.76	-0.07	0.0194	-0.0042	0.0137	-0.2165	0.7043	0.7450	0.1174	0.3371	0.1576	0.4525
33	12.11	-0.12	0.0137	-0.0047	0.0129	-0.3431	0.9391	0.7678	0.1170	0.3452	0.1524	0.4497
34	12.50	-0.09	0.0190	-0.0048	0.0127	-0.2526	0.6701	0.7213	0.0787	0.3121	0.1091	0.4328
35	12.84	-0.08	0.0122	-0.0051	0.0109	-0.4180	0.8906	0.7328	0.0746	0.3164	0.1018	0.4317
36	13.21	-0.08	0.0101	-0.0059	0.0115	-0.5842	1.1352	0.7456	0.0713	0.3207	0.0956	0.4302
37	13.57	-0.07	0.0011	-0.0061	0.0061	-5.5455	5.5150	0.7714	0.0701	0.3324	0.0909	0.4310
38	13.93	-0.12	0.0144	-0.0058	0.0102	-0.4028	0.7382	0.7939	0.0662	0.3437	0.0834	0.4330
39	14.25	-0.12	0.0015	-0.0061	0.0037	-4.0667	2.4665	0.8139	0.0646	0.3513	0.0794	0.4316
40	14.63	-0.14	-0.0001	-0.0056	0.0076	56.0000	-75.6667	0.8328	0.0619	0.3591	0.0743	0.4312
41	14.96	-0.11	-0.0112	-0.0074	-0.0016	0.6607	0.1457	0.8664	0.0591	0.3725	0.0682	0.4299
42	15.31	-0.07	-0.0069	-0.0067	0.0014	0.9710	-0.2030	0.8930	0.0567	0.3821	0.0635	0.4278
43	15.66	-0.11	-0.0156	-0.0081	-0.0042	0.5192	0.2691	0.9156	0.0544	0.3913	0.0594	0.4274
44	15.97	-0.05	-0.0173	-0.0085	-0.0040	0.4913	0.2292	0.9279	0.0542	0.3970	0.0584	0.4278
45	16.30	-0.14	-0.0198	-0.0089	-0.0089	0.4495	0.4494	0.9676	0.0524	0.4121	0.0542	0.4259
46	16.63	-0.09	-0.0231	-0.0092	-0.0061	0.3983	0.2640	0.9828	0.0515	0.4185	0.0524	0.4258

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 3 0.97 1.7			0.0	0.2	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YCPF1	CNF2	CH2	CB2	XC PF2	YCPF2
47	16.97	-0.12	-0.0229	-0.0094	-0.0093	0.4105	0.4075	1.0110	0.0506	0.4290	0.0500	0.4243
48	17.28	-0.12	-0.0324	-0.0118	-0.0137	0.3642	0.4227	1.0154	0.0498	0.4340	0.0490	0.4275
49	17.61	-0.12	-0.0315	-0.0117	-0.0091	0.3714	0.2888	1.0366	0.0492	0.4422	0.0475	0.4266
50	17.94	-0.09	-0.0345	-0.0112	-0.0151	0.3246	0.4376	1.0487	0.0492	0.4457	0.0469	0.4250
51	18.25	-0.12	-0.0368	-0.0131	-0.0202	0.3560	0.5479	1.0681	0.0486	0.4539	0.0455	0.4250
52	18.62	-0.10	-0.0315	-0.0109	-0.0153	0.3400	0.4856	1.0775	0.0482	0.4562	0.0447	0.4234
53	18.95	-0.09	-0.0453	-0.0138	-0.0111	0.3046	0.2449	1.0958	0.0476	0.4668	0.0434	0.4260
54	19.27	-0.07	-0.0383	-0.0123	-0.0134	0.3211	0.3669	1.1042	0.0474	0.4709	0.0429	0.4265
55	19.60	-0.11	-0.0405	-0.0147	-0.0222	0.3630	0.5480	1.1265	0.0471	0.4808	0.0418	0.4268
56	19.94	-0.08	-0.0420	-0.0147	-0.0208	0.3500	0.4951	1.1269	0.0467	0.4804	0.0414	0.4255
57	20.26	-0.07	-0.0460	-0.0148	-0.0226	0.3217	0.4919	1.1485	0.0461	0.4895	0.0401	0.4262
58	20.58	-0.14	-0.0577	-0.0181	-0.0260	0.3137	0.4511	1.1535	0.0464	0.4893	0.0402	0.4242
59	20.96	-0.12	-0.0550	-0.0166	-0.0271	0.3018	0.4932	1.1729	0.0459	0.5001	0.0391	0.4264
60	21.27	-0.10	-0.0662	-0.0198	-0.0330	0.2591	0.4979	1.1717	0.0457	0.4981	0.0390	0.4251
61	21.61	-0.11	-0.0446	-0.0161	-0.0310	0.3610	0.6442	1.1854	0.0461	0.5034	0.0389	0.4247
62	21.91	-0.10	-0.0616	-0.0197	-0.0368	0.3198	0.5478	1.1814	0.0459	0.5003	0.0389	0.4234
63	22.22	-0.12	-0.0266	-0.0129	-0.0230	0.4850	0.8633	1.1870	0.0460	0.5041	0.0388	0.4247
64	22.53	-0.10	-0.0198	-0.0140	-0.0187	0.7071	0.9443	1.2050	0.0453	0.5148	0.0376	0.4272
65	22.87	-0.10	-0.0124	-0.0121	-0.0182	0.5380	1.4107	1.1971	0.0461	0.5045	0.0385	0.4214
66	23.18	-0.08	-0.0129	-0.0101	-0.0165	0.7829	1.2790	1.2085	0.0455	0.5125	0.0376	0.4241
67	23.52	-0.18	-0.0085	-0.0113	-0.0155	1.3294	1.8273	1.1840	0.0462	0.5040	0.0390	0.4257
68	23.82	-0.11	-0.0085	-0.0118	-0.0178	1.3882	2.0979	1.2029	0.0454	0.5099	0.0377	0.4239
69	24.14	-0.13	0.0206	-0.0047	-0.0078	-0.2282	-0.3804	1.1705	0.0460	0.4951	0.0393	0.4230
70	24.46	-0.11	-0.0282	-0.0184	-0.0233	0.6525	0.8261	1.2335	0.0442	0.5284	0.0358	0.4284
71	24.80	-0.12	-0.0574	-0.0214	-0.0279	0.3728	0.4865	1.2535	0.0440	0.5283	0.0351	0.4214
72	25.12	-0.09	-0.0085	-0.0117	-0.0181	1.3765	2.1332	1.1790	0.0448	0.4994	0.0380	0.4235
73	25.39	-0.10	0.0239	0.0001	-0.0037	0.0042	-0.1563	1.1401	0.0459	0.4761	0.0403	0.4193
74	25.71	-0.13	0.0288	-0.0005	-0.0033	-0.0174	-0.1147	1.1617	0.0454	0.4847	0.0391	0.4172
75	26.01	-0.12	-0.0015	-0.0095	-0.0160	6.3333	10.6665	1.1779	0.0446	0.4978	0.0379	0.4226
76	26.33	-0.11	-0.0196	-0.0100	-0.0153	0.5051	0.7726	1.1902	0.0449	0.5006	0.0377	0.4206
77	26.63	-0.12	0.0542	0.0036	0.0120	0.0664	0.2207	1.1476	0.0435	0.4820	0.0396	0.4200
78	26.93	-0.12	0.0169	-0.0014	-0.0019	-0.0828	-0.1106	1.1494	0.0435	0.4802	0.0396	0.4178
79	27.26	-0.10	0.0329	-0.0006	-0.0053	-0.0182	0.1600	1.1394	0.0437	0.4732	0.0401	0.4153
80	27.56	-0.12	0.0102	-0.0006	-0.0001	-0.3529	-0.5001	1.1667	0.0443	0.4879	0.0379	0.4175
81	27.87	-0.11	0.0665	0.0035	0.0123	0.0526	0.1843	1.1455	0.0454	0.4815	0.0396	0.4203
82	28.17	-0.11	0.0232	-0.0025	-0.0036	-0.1078	-0.1539	1.1459	0.0458	0.4799	0.0400	0.4188
83	28.51	-0.10	0.0859	0.0053	0.0217	0.0617	0.2529	1.1467	0.0456	0.4811	0.0398	0.4195
84	28.81	-0.13	0.0686	0.0062	0.0235	0.0904	0.3420	1.1443	0.0455	0.4817	0.0398	0.4210
85	29.13	-0.12	0.0522	0.0019	0.0094	0.0364	0.1800	1.1581	0.0455	0.4851	0.0393	0.4189
86	29.46	-0.12	0.0899	0.0156	0.0517	0.1735	0.5746	1.1671	0.0457	0.4875	0.0392	0.4177
87	29.70	-0.10	0.0529	0.0021	0.0059	0.0397	0.1120	1.1764	0.0449	0.4952	0.0382	0.4209
88	29.74	-0.09	0.0704	0.0072	0.0256	0.1023	0.3630	1.1855	0.0445	0.4963	0.0375	0.4167

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	3	0.97	1.7	0.0	B2NOF16	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	-2.37	-0.02	0.0150	0.0066	0.0153	0.4400	1.0199	-0.2361	-0.0450	-0.0560	0.1890	0.2354
2	-1.77	-0.01	0.0202	0.0083	0.0164	0.4109	0.8134	-0.2045	-0.0336	-0.0413	0.1643	0.2022
3	-1.37	-0.04	0.0215	0.0084	0.0178	0.3907	0.8262	-0.1690	-0.0239	-0.0239	0.1249	0.1415
4	-0.77	-0.03	0.0202	0.0079	0.0172	0.3511	0.8530	-0.1289	-0.0111	-0.0054	0.0861	0.0415
5	-0.25	-0.06	0.0176	0.0073	0.0165	0.4148	0.9355	-0.0896	-0.0026	0.0101	0.0290	-0.1132
6	0.29	0.0	0.0199	0.0082	0.0190	0.4121	0.9563	-0.0575	0.0053	0.0256	-0.0922	-0.4459
7	0.80	-0.07	0.0228	0.0082	0.0194	0.3556	0.8508	-0.0192	0.0134	0.0394	-0.6979	-2.0522
8	1.31	-0.11	0.0214	0.0079	0.0195	0.3692	0.9127	0.0202	0.0236	0.0577	1.1683	2.8580
9	1.80	-0.02	0.0211	0.0081	0.0211	0.3839	1.0015	0.0578	0.0357	0.0745	0.6176	1.2882
10	2.29	-0.03	0.0234	0.0084	0.0209	0.3307	0.8214	0.0915	0.0461	0.0876	0.5038	0.9573
11	2.75	-0.01	0.0256	0.0078	0.0206	0.3047	0.8059	0.1357	0.0571	0.1076	0.4208	0.7931
12	3.25	-0.01	0.0239	0.0084	0.0218	0.3515	0.9106	0.1695	0.0629	0.1222	0.3711	0.7208
13	3.69	-0.01	0.0216	0.0071	0.0195	0.3287	0.9027	0.2153	0.0693	0.1409	0.3219	0.6546
14	4.13	-0.06	0.0320	0.0092	0.0238	0.2875	0.7426	0.2576	0.0728	0.1580	0.2826	0.6135
15	4.61	-0.13	0.0349	0.0093	0.0234	0.2605	0.6713	0.3038	0.0760	0.1811	0.2502	0.5962
16	5.05	-0.05	0.0270	0.0075	0.0203	0.2926	0.7517	0.3454	0.0760	0.1981	0.2258	0.5735
17	5.50	-0.12	0.0348	0.0095	0.0237	0.2730	0.6809	0.3774	0.0784	0.2128	0.2077	0.5637
18	5.92	-0.05	0.0366	0.0111	0.0243	0.2876	0.6286	0.4236	0.0811	0.2333	0.1915	0.5509
19	6.37	-0.05	0.0397	0.0116	0.0253	0.2922	0.6380	0.4619	0.0851	0.2510	0.1842	0.5434
20	6.83	-0.04	0.0316	0.0109	0.0225	0.3449	0.7130	0.4865	0.0860	0.2659	0.1768	0.5466
21	7.28	-0.02	0.0392	0.0130	0.0264	0.3316	0.6725	0.5281	0.0832	0.2819	0.1670	0.5337
22	7.70	-0.09	0.0379	0.0127	0.0257	0.3351	0.6789	0.5594	0.0903	0.2966	0.1614	0.5302
23	8.16	-0.12	0.0390	0.0131	0.0263	0.3359	0.6742	0.5837	0.0932	0.3106	0.1597	0.5321
24	8.58	-0.11	0.0256	0.0111	0.0228	0.4336	0.8918	0.6084	0.0963	0.3209	0.1583	0.5275
25	8.98	-0.10	0.0323	0.0122	0.0242	0.3777	0.7481	0.6273	0.0983	0.3311	0.1567	0.5279
26	9.39	-0.03	0.0365	0.0124	0.0252	0.3397	0.6894	0.6533	0.1023	0.3416	0.1566	0.5229
27	9.82	-0.07	0.0388	0.0138	0.0274	0.3557	0.7069	0.6768	0.1046	0.3549	0.1546	0.5244
28	10.21	-0.03	0.0442	0.0148	0.0286	0.3348	0.6477	0.6860	0.1091	0.3613	0.1590	0.5267
29	10.61	-0.12	0.0386	0.0141	0.0290	0.3653	0.7503	0.6947	0.1142	0.3654	0.1644	0.5260
30	11.02	-0.11	0.0375	0.0133	0.0284	0.3547	0.7572	0.6950	0.1185	0.3259	0.1992	0.5477
31	11.40	-0.02	0.0441	0.0148	0.0312	0.3336	0.7074	0.6145	0.1176	0.3289	0.1914	0.5352
32	11.76	-0.07	0.0491	0.0160	0.0345	0.3259	0.7100	0.6340	0.1163	0.3369	0.1834	0.5313
33	12.11	-0.12	0.0412	0.0143	0.0323	0.3471	0.7847	0.6668	0.1155	0.3489	0.1732	0.5232
34	12.50	-0.09	0.0451	0.0148	0.0343	0.3282	0.7612	0.6327	0.0741	0.3226	0.1171	0.5099
35	12.84	-0.08	0.0451	0.0147	0.0342	0.3259	0.7589	0.6556	0.0724	0.3311	0.1104	0.5050
36	13.21	-0.08	0.0425	0.0142	0.0328	0.3341	0.7709	0.6579	0.0701	0.3345	0.1066	0.5085
37	13.57	-0.07	0.0505	0.0151	0.0351	0.2990	0.6956	0.6966	0.0679	0.3508	0.0975	0.5036
38	13.93	-0.12	0.0478	0.0145	0.0346	0.3033	0.7244	0.7081	0.0643	0.3513	0.0908	0.4962
39	14.25	-0.12	0.0454	0.0140	0.0316	0.3684	0.6967	0.7359	0.0654	0.3645	0.0889	0.4953
40	14.63	-0.14	0.0314	0.0106	0.0250	0.3376	0.7950	0.7574	0.0624	0.3743	0.0824	0.4942
41	14.96	-0.11	0.0465	0.0145	0.0340	0.3118	0.7311	0.7929	0.0588	0.3908	0.0742	0.4929
42	15.31	-0.07	0.0529	0.0161	0.0367	0.3043	0.6943	0.8130	0.0509	0.4013	0.0700	0.4936
43	15.66	-0.11	0.0378	0.0145	0.0340	0.3836	0.8994	0.8241	0.0556	0.4073	0.0671	0.4919
44	15.97	-0.05	0.0461	0.0149	0.0367	0.3232	0.7953	0.8473	0.0539	0.4161	0.0636	0.4911
45	16.30	-0.14	0.0445	0.0153	0.0368	0.3438	0.8276	0.8831	0.0521	0.4331	0.0590	0.4904
46	16.63	-0.09	0.0536	0.0171	0.0406	0.3190	0.7567	0.8966	0.0511	0.4380	0.0570	0.4885

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		3		0.97		1.7	0.0	B2WOF16	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	16.97	-0.12	0.0481	0.0163	0.0392	0.3389	0.8155	0.9238	0.0506	0.4511	0.0548	0.4883	
48	17.28	-0.12	0.0453	0.0157	0.0390	0.3466	0.8608	0.9244	0.0493	0.4533	0.0533	0.4904	
49	17.61	-0.12	0.0428	0.0151	0.0372	0.3528	0.8683	0.9398	0.0484	0.4590	0.0515	0.4884	
50	17.94	-0.09	0.0519	0.0168	0.0409	0.3237	0.7879	0.9679	0.0478	0.4714	0.0494	0.4871	
51	18.25	-0.12	0.0601	0.0178	0.0427	0.2962	0.7109	0.9770	0.0475	0.4763	0.0466	0.4875	
52	18.62	-0.10	0.0441	0.0151	0.0380	0.3424	0.8616	0.9938	0.0468	0.4839	0.0471	0.4870	
53	18.95	-0.09	0.0576	0.0168	0.0417	0.2917	0.7238	1.0082	0.0465	0.4875	0.0461	0.4836	
54	19.27	-0.07	0.0420	0.0135	0.0351	0.3214	0.8356	1.0273	0.0462	0.4952	0.0450	0.4821	
55	19.60	-0.11	0.0510	0.0154	0.0397	0.3020	0.7783	1.0399	0.0459	0.5020	0.0441	0.4827	
56	19.94	-0.08	0.0539	0.0154	0.0386	0.2857	0.7154	1.0377	0.0452	0.5020	0.0436	0.4837	
57	20.26	-0.07	0.0455	0.0147	0.0388	0.3231	0.8519	1.0646	0.0450	0.5123	0.0423	0.4813	
58	20.58	-0.14	0.0591	0.0162	0.0412	0.2741	0.6970	1.0496	0.0450	0.5046	0.0429	0.4808	
59	20.96	-0.12	0.0521	0.0158	0.0406	0.3033	0.7785	1.0751	0.0450	0.5168	0.0419	0.4807	
60	21.27	-0.10	0.0536	0.0154	0.0395	0.2873	0.7362	1.0684	0.0446	0.5149	0.0417	0.4819	
61	21.61	-0.11	0.0583	0.0173	0.0447	0.2567	0.7072	1.0856	0.0449	0.5197	0.0414	0.4788	
62	21.91	-0.10	0.0638	0.0177	0.0446	0.2774	0.6984	1.0769	0.0447	0.5168	0.0415	0.4799	
63	22.22	-0.12	0.0547	0.0162	0.0416	0.2962	0.7610	1.0618	0.0450	0.5106	0.0424	0.4809	
64	22.53	-0.10	0.0585	0.0166	0.0447	0.2838	0.7640	1.0423	0.0453	0.4992	0.0435	0.4790	
65	22.87	-0.10	0.0681	0.0176	0.0467	0.2584	0.6856	1.0480	0.0454	0.4963	0.0433	0.4755	
66	23.18	-0.08	0.0680	0.0181	0.0467	0.2662	0.6862	1.0788	0.0451	0.5163	0.0418	0.4786	
67	23.52	-0.18	0.0720	0.0185	0.0489	0.2565	0.6790	1.0526	0.0449	0.5051	0.0427	0.4799	
68	23.82	-0.11	0.0654	0.0174	0.0465	0.2661	0.7109	1.0499	0.0451	0.5020	0.0430	0.4782	
69	24.19	-0.13	0.0664	0.0180	0.0489	0.2711	0.7368	1.0862	0.0439	0.5271	0.0404	0.4853	
70	24.48	-0.11	0.0734	0.0184	0.0495	0.2507	0.6793	1.0112	0.0459	0.4884	0.0454	0.4830	
71	24.80	-0.12	0.0758	0.0191	0.0521	0.2520	0.6868	1.0128	0.0457	0.4829	0.0451	0.4768	
72	25.12	-0.09	0.0710	0.0177	0.0487	0.2493	0.6853	1.0418	0.0452	0.5057	0.0434	0.4855	
73	25.39	-0.10	0.0744	0.0190	0.0530	0.2554	0.7122	1.0967	0.0438	0.5256	0.0399	0.4793	
74	25.71	-0.13	0.0693	0.0184	0.0491	0.2655	0.7084	1.1093	0.0434	0.5307	0.0391	0.4784	
75	26.01	-0.12	0.0638	0.0175	0.0483	0.2743	0.7564	1.0491	0.0450	0.5101	0.0429	0.4862	
76	26.33	-0.11	0.0609	0.0201	0.0552	0.2485	0.6818	1.0592	0.0448	0.5079	0.0423	0.4796	
77	26.63	-0.12	0.0754	0.0196	0.0553	0.2599	0.7337	1.0962	0.0438	0.5297	0.0400	0.4832	
78	26.93	-0.12	0.0628	0.0166	0.0474	0.2643	0.7552	1.0528	0.0451	0.5126	0.0428	0.4869	
79	27.26	-0.10	0.0682	0.0175	0.0495	0.2566	0.7262	1.0397	0.0452	0.5096	0.0435	0.4904	
80	27.56	-0.12	0.0576	0.0159	0.0451	0.2760	0.7829	1.0502	0.0451	0.5120	0.0429	0.4876	
81	27.87	-0.11	0.0640	0.0171	0.0493	0.2672	0.7707	1.0584	0.0447	0.5192	0.0422	0.4905	
82	28.17	-0.11	0.0588	0.0161	0.0475	0.2738	0.8077	1.0487	0.0454	0.5147	0.0433	0.4908	
83	28.51	-0.10	0.0750	0.0183	0.0524	0.2440	0.6985	1.0652	0.0453	0.5224	0.0425	0.4905	
84	28.81	-0.13	0.0763	0.0182	0.0538	0.2385	0.7054	1.0571	0.0454	0.5170	0.0429	0.4891	
85	29.13	-0.12	0.0746	0.0187	0.0559	0.2507	0.7488	1.0728	0.0452	0.5222	0.0421	0.4867	
86	29.46	-0.12	0.0630	0.0166	0.0505	0.2635	0.8015	1.0940	0.0442	0.5358	0.0404	0.4898	
87	29.70	-0.10	0.0667	0.0176	0.0517	0.2639	0.7755	1.0936	0.0444	0.5343	0.0406	0.4886	
88	29.74	-0.09	0.0670	0.0170	0.0501	0.2537	0.7481	1.1046	0.0440	0.5361	0.0398	0.4853	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 4 1.01 1.7 0.0 82WOF16 0.0 0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	-2.75	0.0	-0.4613	1.4378	0.0720	-0.1408	0.0010	0.3048	-3.1165
2	-2.49	-0.02	-0.4422	1.2671	-0.0095	-0.2457	-0.0010	0.2981	-2.9103
3	-1.94	-0.02	-0.3337	1.0170	-0.0126	-0.2523	-0.0020	0.3062	-3.0482
4	-1.33	-0.05	-0.2305	0.7236	0.0670	-0.2218	0.0	0.3174	-3.1397
5	-0.76	-0.05	-0.1187	0.4151	-0.0138	-0.1517	-0.0030	0.3186	-3.4977
6	-0.22	-0.01	-0.0136	0.1550	0.0077	-0.1098	0.0	0.3177	-11.4000
7	0.28	-0.01	0.0821	-0.1359	0.0664	-0.2079	0.0010	0.3150	-1.6558
8	0.80	-0.01	0.1693	-0.3450	0.0645	-0.2153	0.0060	0.3112	-2.0379
9	1.29	0.0	0.2645	-0.6362	0.1180	-0.2382	-0.0010	0.3096	-2.4057
10	1.78	-0.01	0.3534	-0.8716	0.0863	-0.2648	0.0010	0.3088	-2.4668
11	2.27	-0.03	0.4752	-1.1883	-0.0793	-0.2309	0.0020	0.3147	-2.5004
12	2.73	-0.03	0.5538	-1.4533	-0.0145	-0.1397	0.0	0.3105	-2.6240
13	3.24	-0.02	0.6688	-1.7622	0.0672	-0.1561	0.0020	0.2881	-2.6349
14	3.68	-0.03	0.7543	-2.0339	0.0193	-0.0480	-0.0020	0.2690	-2.6964
15	4.15	-0.04	0.8913	-2.4156	0.0454	-0.1015	-0.0010	0.2710	-2.7103
16	4.59	-0.05	0.9646	-2.6962	-0.0149	-0.1561	-0.0010	0.2680	-2.7952
17	5.05	-0.03	1.0796	-3.0182	-0.0102	-0.0357	-0.0010	0.2980	-2.7958
18	5.49	-0.01	1.1763	-3.3237	0.0594	-0.2221	0.0010	0.3175	-2.8254
19	5.92	-0.02	1.2648	-3.5735	0.0259	-0.0683	-0.0010	0.3377	-2.8253
20	6.38	-0.01	1.3532	-3.8163	-0.0108	-0.1319	0.0070	0.3372	-2.8201
21	6.82	-0.03	1.4572	-4.0708	-0.0435	-0.0681	0.0	0.3343	-2.7936
22	7.28	-0.02	1.5540	-4.2423	-0.0222	-0.1759	0.0060	0.3249	-2.7299
23	7.69	-0.01	1.6303	-4.5531	0.0623	-0.0612	0.0030	0.3345	-2.7928
24	8.14	-0.05	1.6944	-4.8448	-0.0760	-0.0106	0.0050	0.3313	-2.7413
25	8.56	-0.04	1.7640	-4.8962	-0.0403	-0.0376	0.0010	0.3404	-2.7757
26	8.98	-0.03	1.8262	-5.0133	0.0722	-0.0441	0.0010	0.3335	-2.7453
27	9.36	-0.04	1.9341	-5.3195	-0.0274	0.0304	-0.0040	0.3274	-2.7503
28	9.80	-0.03	2.0113	-5.4025	0.0103	0.0396	-0.0020	0.3188	-2.6860
29	10.19	-0.03	2.0848	-5.5754	0.0268	0.0265	-0.0050	0.3168	-2.6743
30	10.59	-0.05	2.1639	-5.8011	-0.0717	0.0244	-0.0070	0.3211	-2.6808
31	10.93	-0.05	2.2485	-5.8765	-0.0438	0.0573	0.0010	0.3104	-2.6135
32	11.37	-0.03	2.2880	-5.9668	0.1074	-0.0074	0.0090	0.3202	-2.6070
33	11.72	-0.04	2.3271	-5.9216	0.0038	0.0617	0.0190	0.3253	-2.5446
34	12.08	-0.08	2.3683	-5.9643	-0.1438	0.2103	0.0300	0.3311	-2.5184
35	12.47	-0.01	2.4285	-5.7965	-0.0223	0.2132	0.0280	0.3266	-2.4693
36	12.81	-0.07	2.5222	-6.1607	-0.0627	0.1878	0.0230	0.3249	-2.4426
37	13.19	-0.08	2.5099	-5.9565	-0.0129	-0.0719	-0.0320	0.3337	-2.3732
38	13.56	-0.10	2.5979	-6.0847	-0.0665	0.0647	-0.0210	0.3226	-2.3422
39	13.92	-0.08	2.5909	-5.8929	-0.0080	-0.0522	-0.0880	0.3251	-2.2745
40	14.27	-0.07	2.6634	-5.9714	-0.0770	0.0188	-0.0900	0.3201	-2.2421
41	14.64	-0.07	2.6926	-6.0934	-0.0770	-0.0242	-0.0980	0.3148	-2.2630
42	14.99	-0.05	2.7496	-6.0192	0.0176	-0.0496	-0.0420	0.3152	-2.1891
43	15.35	-0.05	2.8171	-6.1527	-0.0135	-0.0201	-0.0440	0.3144	-2.1840
44	15.67	-0.06	2.8764	-6.1917	-0.0446	0.0064	-0.0410	0.3117	-2.1526
45	16.01	-0.05	2.9524	-6.3621	0.0850	0.1400	-0.0350	0.2993	-2.1549
46	16.34	-0.09	3.0510	-6.4471	-0.0736	0.0090	-0.0470	0.2931	-2.1131

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	4	1.01 1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.66	-0.06	3.1146	-6.6211	-0.0377	0.1058	-0.0440	0.2940	-2.1258	
48	17.00	-0.08	3.2221	-6.7056	-0.0431	0.2103	-0.0470	0.2837	-2.0811	
49	17.31	-0.08	3.2582	-6.8081	-0.0497	0.1016	-0.0500	0.2754	-2.0896	
50	17.63	-0.07	3.3479	-6.9627	-0.0597	0.3265	-0.0450	0.2672	-2.0797	
51	17.97	-0.09	3.4406	-7.0696	-0.0680	0.1043	-0.0550	0.2595	-2.0547	
52	18.30	-0.06	3.4486	-7.1228	0.0400	0.2280	-0.0600	0.2543	-2.0654	
53	18.64	-0.08	3.6120	-7.2955	-0.0697	0.0236	-0.0580	0.2443	-2.0198	
54	18.98	-0.06	3.6599	-7.2956	-0.0696	0.2604	-0.0620	0.2409	-1.9934	
55	19.29	-0.05	3.7152	-7.3710	-0.0022	0.2570	-0.0620	0.2367	-1.9840	
56	19.64	-0.07	3.8610	-7.4551	0.0771	0.2420	-0.0630	0.2307	-1.9309	
57	19.97	-0.07	3.9298	-7.5284	-0.0066	0.3452	-0.0670	0.2354	-1.9157	
58	20.31	-0.10	4.0452	-7.5770	-0.0901	0.1171	-0.0660	0.2219	-1.8731	
59	20.64	-0.09	4.0983	-7.6443	0.0809	0.0807	-0.0730	0.2225	-1.8653	
60	21.00	-0.08	4.2116	-7.6721	-0.0287	0.2851	-0.0790	0.2230	-1.8216	
61	21.32	-0.09	4.2766	-7.7001	-0.1495	0.4032	-0.0950	0.2202	-1.8005	
62	21.63	-0.07	4.3604	-7.7434	-0.0381	0.4143	-0.0820	0.2120	-1.7758	
63	21.95	-0.10	4.4431	-7.7932	-0.0456	-0.0638	-0.0760	0.2026	-1.7540	
64	22.26	-0.11	4.5920	-7.8856	-0.0817	0.1634	-0.0770	0.1987	-1.7172	
65	22.58	-0.07	4.5792	-7.9747	-0.0310	0.3654	-0.0920	0.2031	-1.7415	
66	22.93	-0.11	4.7165	-7.8969	-0.0813	0.1628	-0.0770	0.1861	-1.6743	
67	23.23	-0.10	4.7127	-8.0006	0.0544	0.0278	-0.0780	0.1875	-1.6977	
68	23.53	-0.12	4.8492	-8.0217	0.0351	-0.0221	-0.0780	0.1832	-1.6542	
69	23.89	-0.10	4.9684	-8.0125	0.0664	-0.0020	-0.0850	0.1771	-1.6127	
70	24.22	-0.12	5.0341	-8.0127	-0.0310	0.1714	-0.0990	0.1780	-1.5917	
71	24.54	-0.12	5.1626	-7.9166	-0.0498	0.2027	-0.1000	0.1730	-1.5334	
72	24.87	-0.12	5.2347	-7.9075	0.0444	-0.0921	-0.0750	0.1720	-1.5106	
73	25.20	-0.09	5.3078	-7.8069	0.0730	0.2668	-0.1160	0.1614	-1.4708	
74	25.43	-0.12	5.3065	-7.8201	-0.0411	0.1035	-0.0830	0.1550	-1.4737	
75	25.79	-0.09	5.4394	-7.7011	-0.0464	0.3659	-0.1140	0.1462	-1.4158	
76	26.11	-0.12	5.5330	-7.6757	0.0670	0.0162	-0.0810	0.1425	-1.3872	
77	26.35	-0.09	5.5872	-7.6711	0.0319	0.2213	-0.1040	0.1380	-1.3730	
78	26.67	-0.11	5.7280	-7.5692	0.1559	-0.2092	-0.0510	0.1277	-1.3214	
79	27.03	-0.11	5.8560	-7.5315	-0.0284	0.3117	-0.1170	0.1242	-1.2861	
80	27.35	-0.12	5.9536	-7.5622	0.1326	-0.2636	-0.0590	0.1255	-1.2702	
81	27.67	-0.10	6.0963	-7.4880	0.1190	-0.0476	-0.0810	0.1177	-1.2283	
82	27.95	-0.11	6.1295	-7.4584	-0.0112	0.2686	-0.0870	0.1127	-1.2168	
83	28.28	-0.13	6.2438	-7.3885	-0.1417	0.3603	-0.1430	0.1146	-1.1833	
84	28.59	-0.12	6.4196	-7.4456	0.0874	-0.1423	-0.0340	0.1100	-1.1598	
85	28.93	-0.11	6.5609	-7.3416	0.0249	0.0651	-0.0520	0.0971	-1.1190	
86	29.24	-0.14	6.5223	-7.1005	0.0621	-0.6439	0.1000	0.1031	-1.0886	
87	29.57	-0.06	6.6855	-7.1510	0.3261	-0.1405	-0.0150	0.0916	-1.0696	
88	29.84	-0.05	6.7828	-7.2212	0.4161	0.0373	-0.0190	0.0786	-1.0646	
89	29.83	-0.10	6.8446	-7.1688	-0.0614	0.1529	-0.0430	0.0855	-1.0474	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 4 1.01 1.7				0.0	0.2X0F16	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	-2.75	0.0	0.0379	0.0005	0.0049	0.0132	0.1300	-0.1738	-0.0527	-0.0936	0.3032	0.5386	
2	-2.49	-0.02	0.0352	0.0004	0.0050	0.0114	0.1429	-0.1542	-0.0483	-0.0848	0.3132	0.5498	
3	-1.94	-0.02	0.0394	0.0007	0.0046	0.0178	0.1226	-0.1103	-0.0370	-0.0661	0.3354	0.5989	
4	-1.33	-0.05	0.0422	0.0013	0.0068	0.0308	0.1802	-0.0720	-0.0231	-0.0484	0.3208	0.6721	
5	-0.76	-0.05	0.0366	0.0007	0.0051	0.0191	0.1392	-0.0306	-0.0126	-0.0312	0.4118	1.0195	
6	-0.22	-0.01	0.0353	0.0011	0.0066	0.0312	0.1859	-0.0104	-0.0041	-0.0136	-0.3942	-1.3110	
7	0.28	-0.01	0.0362	0.0017	0.0079	0.0445	0.2376	0.0463	0.0031	0.0032	0.0670	0.0697	
8	0.80	-0.01	0.0440	0.0027	0.0193	0.0614	0.2105	0.0766	0.0093	0.0162	0.1214	0.2118	
9	1.29	0.0	0.0367	0.0017	0.0081	0.0463	0.2215	0.1173	0.0198	0.0348	0.1688	0.2966	
10	1.76	-0.01	0.0507	0.0039	0.0131	0.0769	0.2583	0.1606	0.0342	0.0528	0.2130	0.3289	
11	2.27	-0.03	0.0431	0.0004	0.0106	0.0093	0.2450	0.2013	0.0405	0.0123	0.2310	0.3590	
12	2.73	-0.03	0.0369	0.0005	0.0085	0.0136	0.2411	0.2364	0.0537	0.0892	0.2272	0.3172	
13	3.24	-0.02	0.0420	0.0019	0.0098	0.0452	0.2332	0.2746	0.0602	0.1042	0.2192	0.3795	
14	3.68	-0.03	0.0326	0.0011	0.0085	0.0337	0.2596	0.3255	0.0664	0.1273	0.2040	0.3910	
15	4.15	-0.04	0.0316	0.0015	0.0098	0.0475	0.3111	0.3717	0.0713	0.1404	0.1918	0.3991	
16	4.59	-0.05	0.0374	0.0025	0.0114	0.0668	0.3038	0.4100	0.0745	0.1630	0.1817	0.3976	
17	5.05	-0.03	0.0322	0.0006	0.0098	0.0186	0.3053	0.4472	0.0759	0.1806	0.1697	0.4039	
18	5.49	-0.01	0.0383	0.0005	0.0124	0.0131	0.3228	0.4856	0.0775	0.2004	0.1596	0.4127	
19	5.92	-0.02	0.0351	-0.0004	0.0109	-0.0114	0.3104	0.5293	0.0774	0.2188	0.1462	0.4133	
20	6.38	-0.01	0.0351	-0.0003	0.0095	-0.0085	0.2705	0.5554	0.0776	0.2290	0.1397	0.4123	
21	6.82	-0.03	0.0396	-0.0006	0.0116	-0.0152	0.2928	0.6042	0.0791	0.2513	0.1309	0.4160	
22	7.28	-0.02	0.0353	-0.0005	0.0136	-0.0142	0.3842	0.6296	0.0805	0.2627	0.1279	0.4172	
23	7.69	-0.01	0.0311	-0.0012	0.0115	-0.0386	0.3814	0.6676	0.0819	0.2783	0.1227	0.4168	
24	8.14	-0.05	0.0428	0.0	0.0174	0.0	0.4056	0.6918	0.0836	0.2887	0.1208	0.4173	
25	8.56	-0.04	0.0338	-0.0008	0.0131	-0.0237	0.3865	0.7236	0.0851	0.3049	0.1176	0.4214	
26	8.98	-0.03	0.0362	-0.0006	0.0158	-0.0166	0.4354	0.7427	0.0856	0.3137	0.1153	0.4223	
27	9.36	-0.04	0.0218	-0.0016	0.0115	-0.0734	0.5259	0.7787	0.0880	0.3270	0.1130	0.4199	
28	9.80	-0.03	0.0337	-0.0006	0.0163	-0.0178	0.4845	0.8009	0.0896	0.3362	0.1119	0.4197	
29	10.19	-0.03	0.0233	-0.0017	0.0105	-0.0730	0.4663	0.8265	0.0913	0.3505	0.1105	0.4241	
30	10.59	-0.05	0.0168	-0.0021	0.0085	-0.1250	0.5058	0.8509	0.0918	0.3617	0.1079	0.4251	
31	10.98	-0.05	0.0168	-0.0017	0.0102	-0.1012	0.6070	0.8596	0.0958	0.3651	0.1114	0.4248	
32	11.37	-0.03	0.0206	-0.0018	0.0103	-0.0874	0.4983	0.8688	0.0996	0.3728	0.1146	0.4291	
33	11.72	-0.04	0.0084	-0.0031	0.0063	-0.3690	0.7999	0.8707	0.1052	0.3701	0.1228	0.4320	
34	12.08	-0.08	0.0107	-0.0020	0.0056	-0.1869	0.5201	0.8648	0.1054	0.3710	0.1219	0.4290	
35	12.47	-0.01	0.0187	-0.0011	0.0095	-0.0588	0.5097	0.8722	0.1046	0.3774	0.1199	0.4327	
36	12.81	-0.07	0.0136	-0.0016	0.0056	-0.1176	0.4141	0.9009	0.1033	0.3894	0.1147	0.4322	
37	13.19	-0.08	-0.0004	-0.0057	-0.0012	14.2500	3.0832	0.9210	0.1018	0.3969	0.1105	0.4331	
38	13.56	-0.10	0.0240	-0.0024	0.0108	-0.1000	0.4499	0.9440	0.1020	0.4070	0.1081	0.4311	
39	13.92	-0.08	0.0192	-0.0054	0.0094	-0.2812	0.4895	0.9650	0.1006	0.4161	0.1042	0.4311	
40	14.27	-0.07	0.0173	-0.0058	0.0110	-0.3353	0.6338	0.9832	0.0993	0.4252	0.1010	0.4325	
41	14.64	-0.07	-0.0039	-0.0084	-0.0007	2.1538	0.1794	1.0017	0.0974	0.4289	0.0972	0.4282	
42	14.99	-0.05	-0.0059	-0.0062	-0.0029	1.0508	0.4858	0.9336	0.0620	0.3895	0.0664	0.4172	
43	15.35	-0.05	-0.0196	-0.0078	-0.0093	0.3980	0.4761	0.9581	0.0586	0.3966	0.0612	0.4160	
44	15.67	-0.06	-0.0055	-0.0054	-0.0007	0.9818	0.1332	0.9756	0.0567	0.4076	0.0581	0.4178	
45	16.01	-0.05	0.0061	-0.0027	0.0063	-0.4426	1.0381	0.9909	0.0559	0.4139	0.0564	0.4177	
46	16.34	-0.09	-0.0170	-0.0079	-0.0090	0.4647	0.5273	1.0172	0.0521	0.4240	0.0512	0.4169	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

 PAGE 2 OF 3
 SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		4		1.01		1.7	0.0	82M0F16	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	16.66	-0.06	-0.0126	-0.0070	-0.0070	0.5556	0.5554	1.0338	0.0510	0.4302	0.0493	0.4161	
48	17.00	-0.08	-0.0240	-0.0085	-0.0103	0.5542	0.4290	1.0573	0.0487	0.4370	0.0461	0.4133	
49	17.31	-0.08	-0.0159	-0.0087	-0.0128	0.5472	0.8049	1.0747	0.0470	0.4431	0.0437	0.4123	
50	17.63	-0.07	-0.0222	-0.0101	-0.0134	0.4550	0.6035	1.0926	0.0459	0.4532	0.0420	0.4148	
51	17.97	-0.09	-0.0281	-0.0117	-0.0194	0.4164	0.6891	1.1111	0.0450	0.4600	0.0405	0.4140	
52	18.30	-0.06	-0.0313	-0.0133	-0.0243	0.4249	0.7773	1.1209	0.0448	0.4630	0.0400	0.4131	
53	18.64	-0.06	-0.0358	-0.0143	-0.0266	0.3994	0.7438	1.1478	0.0436	0.4742	0.0380	0.4131	
54	18.98	-0.06	-0.0362	-0.0142	-0.0224	0.3923	0.6288	1.1570	0.0433	0.4814	0.0374	0.4161	
55	19.29	-0.05	-0.0399	-0.0139	-0.0233	0.3484	0.5838	1.1645	0.0431	0.4819	0.0370	0.4139	
56	19.64	-0.07	-0.0413	-0.0144	-0.0254	0.3487	0.6262	1.1838	0.0426	0.4894	0.0360	0.4134	
57	19.97	-0.07	-0.0454	-0.0145	-0.0253	0.3194	0.5579	1.2040	0.0416	0.4994	0.0346	0.4148	
58	20.31	-0.10	-0.0513	-0.0163	-0.0314	0.3177	0.6120	1.2153	0.0414	0.5051	0.0341	0.4156	
59	20.64	-0.09	-0.0356	-0.0143	-0.0283	0.4017	0.7939	1.2312	0.0406	0.5100	0.0330	0.4142	
60	21.00	-0.08	-0.0691	-0.0177	-0.0345	0.2562	0.4996	1.2475	0.0401	0.5186	0.0321	0.4157	
61	21.32	-0.09	-0.0732	-0.0186	-0.0394	0.2541	0.5381	1.2605	0.0396	0.5225	0.0314	0.4145	
62	21.63	-0.07	-0.0536	-0.0169	-0.0373	0.3153	0.6952	1.2665	0.0392	0.5267	0.0310	0.4159	
63	21.95	-0.10	-0.0366	-0.0153	-0.0362	0.4180	0.9690	1.2796	0.0386	0.5307	0.0302	0.4147	
64	22.26	-0.11	-0.0587	-0.0171	-0.0394	0.2913	0.6705	1.2923	0.0383	0.5363	0.0296	0.4150	
65	22.58	-0.07	-0.0644	-0.0151	-0.0341	0.2345	0.5289	1.3114	0.0376	0.5445	0.0287	0.4152	
66	22.93	-0.11	-0.0203	-0.0122	-0.0317	0.6010	1.5598	1.3130	0.0376	0.5434	0.0286	0.4139	
67	23.23	-0.10	-0.0389	-0.0147	-0.0355	0.3779	0.9116	1.3215	0.0373	0.5494	0.0282	0.4158	
68	23.53	-0.12	-0.0343	-0.0139	-0.0356	0.4052	1.0388	1.3383	0.0365	0.5582	0.0273	0.4171	
69	23.89	-0.10	0.0064	-0.0085	-0.0213	-1.3281	-3.3230	1.3576	0.0361	0.5628	0.0266	0.4145	
70	24.22	-0.12	-0.0387	-0.0123	-0.0314	0.3178	0.8113	1.3568	0.0357	0.5634	0.0263	0.4152	
71	24.54	-0.12	-0.0484	-0.0139	-0.0365	0.2872	0.7630	1.3716	0.0351	0.5705	0.0256	0.4160	
72	24.87	-0.12	-0.0658	-0.0160	-0.0451	0.2432	0.6358	1.3842	0.0346	0.5775	0.0250	0.4172	
73	25.20	-0.09	-0.0892	-0.0193	-0.0549	0.2164	0.6157	1.3863	0.0341	0.5784	0.0246	0.4173	
74	25.43	-0.12	-0.0548	-0.0154	-0.0446	0.2619	0.7584	1.3850	0.0343	0.5750	0.0248	0.4152	
75	25.79	-0.09	-0.0476	-0.0134	-0.0392	0.2815	0.8227	1.3893	0.0342	0.5766	0.0246	0.4151	
76	26.11	-0.12	0.0177	-0.0041	-0.0115	-0.2316	-0.6498	1.3928	0.0339	0.5741	0.0243	0.4122	
77	26.35	-0.09	-0.0204	-0.0113	-0.0344	0.5539	1.6862	1.3984	0.0335	0.5793	0.0240	0.4142	
78	26.67	-0.11	0.0545	0.0008	0.0052	0.0147	0.0947	1.3953	0.0348	0.5758	0.0249	0.4127	
79	27.03	-0.11	-0.0640	-0.0168	-0.0561	0.2625	0.8770	1.4245	0.0328	0.5906	0.0230	0.4146	
80	27.35	-0.12	0.0325	-0.0045	-0.0164	-0.1385	-0.5037	1.4179	0.0334	0.5888	0.0236	0.4152	
81	27.67	-0.10	0.0156	-0.0029	-0.0066	-0.1859	-0.4424	1.4260	0.0335	0.5895	0.0235	0.4134	
82	27.95	-0.11	0.0210	-0.0046	-0.0085	-0.2190	-0.4049	1.4246	0.0337	0.5912	0.0237	0.4150	
83	28.28	-0.13	-0.1459	-0.0277	-0.0949	0.1899	0.6506	1.4654	0.0310	0.6092	0.0212	0.4157	
84	28.59	-0.12	0.0382	-0.0023	0.0021	-0.0602	0.0557	1.4452	0.0323	0.6022	0.0223	0.4167	
85	28.93	-0.11	-0.0013	-0.0082	-0.0212	0.3077	1.6332	1.4436	0.0325	0.6000	0.0225	0.4156	
86	29.24	-0.14	0.1579	0.0150	0.0609	0.0950	0.3858	1.3811	0.0343	0.5689	0.0248	0.4119	
87	29.57	-0.06	0.1194	0.0067	0.0477	0.0561	0.3994	1.4297	0.0327	0.5934	0.0229	0.4150	
88	29.84	-0.05	0.1436	0.0132	0.0683	0.0919	0.4760	1.4242	0.0327	0.5858	0.0230	0.4113	
89	29.83	-0.10	0.0999	0.0074	0.0424	0.0741	0.4243	1.4362	0.0325	0.5908	0.0226	0.4113	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	4	1.01	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCPF3	CNF4	CH4	CB4	XCFF4	YCPF4
1	-2.75	0.0	0.0217	0.0047	0.0162	0.2166	0.7480	-0.2851	-0.0496	-0.0704	0.1740	0.2469
2	-2.42	-0.02	0.0282	0.0054	0.0179	0.1915	0.6346	-0.2693	-0.0461	-0.0625	0.1712	0.2322
3	-1.94	-0.02	0.0265	0.0070	0.0171	0.2642	0.6464	-0.2296	-0.0344	-0.0445	0.1498	0.1938
4	-1.33	-0.05	0.0251	0.0067	0.0176	0.2609	0.6997	-0.1962	-0.0214	-0.0285	0.1091	0.1451
5	-0.76	-0.05	0.0184	0.0057	0.0170	0.3098	0.9256	-0.1477	-0.0095	-0.0062	0.0643	0.0421
6	-0.22	-0.01	0.0250	0.0063	0.0181	0.2520	0.7252	-0.0976	-0.0018	0.0108	0.0184	-0.1104
7	0.23	-0.01	0.0289	0.0068	0.0184	0.2353	0.6377	-0.0647	0.0050	0.0279	-0.0773	-0.4319
8	0.80	-0.01	0.0210	0.0058	0.0176	0.2762	0.8380	-0.0301	0.0117	0.0430	-0.3887	-1.4276
9	1.29	0.0	0.0236	0.0076	0.0200	0.2448	0.7003	0.0120	0.0198	0.0588	1.6500	4.8999
10	1.78	-0.01	0.0315	0.0069	0.0187	0.2190	0.5935	0.0446	0.0308	0.0733	0.6906	1.6426
11	2.27	-0.03	0.0311	0.0075	0.0202	0.2412	0.6483	0.0934	0.0458	0.0941	0.4904	1.0077
12	2.73	-0.03	0.0301	0.0067	0.0189	0.2226	0.6289	0.1295	0.0532	0.1115	0.4108	0.8606
13	3.24	-0.02	0.0304	0.0066	0.0182	0.2171	0.5997	0.1699	0.0601	0.1299	0.3537	0.7646
14	3.68	-0.03	0.0252	0.0063	0.0175	0.2500	0.6943	0.2111	0.0650	0.1479	0.3079	0.7008
15	4.15	-0.04	0.0305	0.0071	0.0192	0.2328	0.6283	0.2606	0.0697	0.1712	0.2675	0.6571
16	4.59	-0.05	0.0371	0.0080	0.0211	0.2156	0.5677	0.3059	0.0726	0.1908	0.2373	0.6238
17	5.05	-0.03	0.0382	0.0085	0.0217	0.2225	0.5688	0.3465	0.0730	0.2089	0.2107	0.6028
18	5.49	-0.01	0.0418	0.0095	0.0244	0.2273	0.5844	0.3916	0.0738	0.2282	0.1885	0.5827
19	5.92	-0.02	0.0298	0.0086	0.0206	0.2886	0.6923	0.4241	0.0744	0.2430	0.1754	0.5730
20	6.38	-0.01	0.0369	0.0105	0.0240	0.2846	0.6503	0.4661	0.0766	0.2623	0.1643	0.5628
21	6.82	-0.03	0.0310	0.0112	0.0235	0.3613	0.7590	0.4999	0.0775	0.2762	0.1550	0.5525
22	7.28	-0.02	0.0274	0.0100	0.0207	0.3650	0.7566	0.5324	0.0786	0.2893	0.1476	0.5434
23	7.69	-0.01	0.0258	0.0105	0.0223	0.3523	0.7493	0.5627	0.0802	0.3054	0.1425	0.5427
24	8.14	-0.05	0.0358	0.0120	0.0252	0.3352	0.7047	0.5959	0.0813	0.3160	0.1364	0.5302
25	8.56	-0.04	0.0308	0.0111	0.0237	0.3604	0.7683	0.6250	0.0823	0.3304	0.1317	0.5286
26	8.98	-0.03	0.0267	0.0110	0.0248	0.4120	0.9287	0.6486	0.0830	0.3403	0.1280	0.5247
27	9.36	-0.04	0.0385	0.0124	0.0269	0.3221	0.6994	0.6772	0.0851	0.3570	0.1257	0.5271
28	9.80	-0.03	0.0320	0.0117	0.0254	0.3656	0.8082	0.7032	0.0867	0.3662	0.1233	0.5208
29	10.19	-0.03	0.0267	0.0115	0.0251	0.4307	0.9400	0.7240	0.0879	0.3772	0.1214	0.5211
30	10.59	-0.05	0.0362	0.0121	0.0257	0.3343	0.7089	0.7513	0.0894	0.3916	0.1190	0.5213
31	10.98	-0.05	0.0356	0.0132	0.0274	0.3708	0.7827	0.7700	0.0910	0.4007	0.1182	0.5204
32	11.37	-0.03	0.0295	0.0112	0.0261	0.3797	0.8658	0.7936	0.0915	0.4127	0.1153	0.5201
33	11.72	-0.04	0.0446	0.0143	0.0307	0.3206	0.6875	0.8126	0.0912	0.4224	0.1122	0.5198
34	12.08	-0.08	0.0350	0.0113	0.0258	0.3229	0.7361	0.8302	0.0927	0.4317	0.1117	0.5200
35	12.47	-0.01	0.0368	0.0127	0.0301	0.3451	0.8169	0.8403	0.0928	0.4368	0.1104	0.5198
36	12.81	-0.07	0.0316	0.0119	0.0291	0.3766	0.9218	0.8661	0.0953	0.4472	0.1100	0.5163
37	13.19	-0.08	0.0394	0.0128	0.0306	0.3249	0.7774	0.7949	0.1026	0.4197	0.1291	0.5280
38	13.56	-0.10	0.0356	0.0119	0.0302	0.3343	0.8473	0.8105	0.1011	0.4258	0.1247	0.5253
39	13.92	-0.08	0.0402	0.0135	0.0337	0.3358	0.8382	0.7464	0.0955	0.3875	0.0878	0.5192
40	14.27	-0.07	0.0389	0.0137	0.0331	0.3522	0.8499	0.7542	0.0640	0.3911	0.0649	0.5186
41	14.64	-0.07	0.0416	0.0138	0.0333	0.3317	0.7996	0.7729	0.0633	0.4013	0.0819	0.5193
42	14.99	-0.05	0.0423	0.0147	0.0366	0.3475	0.8651	0.8004	0.0620	0.4159	0.0775	0.5196
43	15.35	-0.05	0.0437	0.0149	0.0365	0.3410	0.8344	0.8348	0.0597	0.4283	0.0715	0.5130
44	15.67	-0.06	0.0384	0.0145	0.0356	0.3776	0.9270	0.8463	0.0582	0.4332	0.0688	0.5119
45	16.01	-0.05	0.0350	0.0128	0.0336	0.3657	0.9589	0.8653	0.0557	0.4433	0.0644	0.5123
46	16.34	-0.09	0.0421	0.0150	0.0387	0.3563	0.8724	0.8837	0.0548	0.4498	0.0620	0.5090

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER/NSRDC

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		4	1.01	1.7	0.0	0.82	WOF16	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	16.66	-0.06	0.0498	0.0161	0.0392	0.3233	0.7370	0.9068	0.0522	0.4602	0.0576	0.5075
48	17.00	-0.08	0.0426	0.0142	0.0350	0.3333	0.8215	0.9276	0.0504	0.4694	0.0543	0.5060
49	17.31	-0.08	0.0421	0.0148	0.0374	0.3515	0.8890	0.9401	0.0494	0.4732	0.0525	0.5033
50	17.63	-0.07	0.0438	0.0145	0.0364	0.3311	0.8309	0.9623	0.0473	0.4844	0.0492	0.5033
51	17.97	-0.09	0.0449	0.0149	0.0377	0.3318	0.8388	0.9815	0.0467	0.4920	0.0476	0.5013
52	18.30	-0.06	0.0400	0.0140	0.0347	0.3300	0.8682	0.9887	0.0464	0.4970	0.0469	0.5027
53	18.64	-0.08	0.0475	0.0156	0.0376	0.3284	0.7922	1.0165	0.0446	0.5081	0.0439	0.4999
54	18.98	-0.06	0.0501	0.0158	0.0393	0.3154	0.7843	1.0321	0.0441	0.5129	0.0427	0.4970
55	19.29	-0.05	0.0438	0.0143	0.0375	0.3265	0.8560	1.0406	0.0438	0.5186	0.0421	0.4984
56	19.64	-0.07	0.0516	0.0153	0.0399	0.2965	0.7731	1.0604	0.0427	0.5295	0.0403	0.4994
57	19.97	-0.07	0.0503	0.0152	0.0391	0.3022	0.7766	1.0724	0.0419	0.5337	0.0391	0.4977
58	20.31	-0.10	0.0565	0.0166	0.0415	0.2938	0.7350	1.0857	0.0415	0.5400	0.0382	0.4973
59	20.64	-0.09	0.0536	0.0165	0.0424	0.3078	0.7703	1.0929	0.0410	0.5443	0.0375	0.4980
60	21.00	-0.08	0.0503	0.0145	0.0390	0.2962	0.7746	1.1034	0.0402	0.5491	0.0364	0.4976
61	21.32	-0.09	0.0550	0.0162	0.0423	0.2945	0.7696	1.1058	0.0397	0.5511	0.0359	0.4983
62	21.63	-0.07	0.0464	0.0143	0.0380	0.3082	0.8181	1.1276	0.0393	0.5603	0.0349	0.4969
63	21.95	-0.10	0.0597	0.0178	0.0442	0.2982	0.7402	1.1290	0.0391	0.5621	0.0346	0.4979
64	22.26	-0.11	0.0536	0.0162	0.0414	0.3022	0.7716	1.1395	0.0385	0.5685	0.0338	0.4989
65	22.56	-0.07	0.0503	0.0146	0.0389	0.2903	0.7726	1.1488	0.0380	0.5705	0.0331	0.4966
66	22.93	-0.11	0.0558	0.0170	0.0444	0.3047	0.7956	1.1611	0.0382	0.5762	0.0329	0.4963
67	23.23	-0.10	0.0562	0.0163	0.0429	0.2900	0.7638	1.1729	0.0375	0.5820	0.0320	0.4962
68	23.53	-0.12	0.0533	0.0164	0.0438	0.3077	0.8210	1.1745	0.0374	0.5855	0.0318	0.4985
69	23.89	-0.10	0.0508	0.0159	0.0426	0.3130	0.8391	1.1958	0.0373	0.5945	0.0312	0.4971
70	24.22	-0.12	0.0598	0.0164	0.0447	0.2742	0.7579	1.1904	0.0367	0.5932	0.0308	0.4983
71	24.54	-0.12	0.0594	0.0165	0.0461	0.2845	0.7760	1.1986	0.0364	0.5939	0.0304	0.4955
72	24.87	-0.12	0.0515	0.0160	0.0438	0.3107	0.8497	1.1914	0.0362	0.5952	0.0304	0.4996
73	25.20	-0.09	0.0610	0.0168	0.0466	0.2718	0.7539	1.1989	0.0357	0.5964	0.0298	0.4974
74	25.43	-0.12	0.0515	0.0160	0.0438	0.3107	0.8497	1.2037	0.0356	0.6009	0.0296	0.4992
75	25.73	-0.09	0.0551	0.0167	0.0464	0.3031	0.8414	1.2121	0.0353	0.6025	0.0291	0.4971
76	26.11	-0.12	0.0654	0.0179	0.0478	0.2737	0.7708	1.2194	0.0355	0.6058	0.0291	0.4968
77	26.35	-0.09	0.0548	0.0171	0.0474	0.3120	0.8642	1.2122	0.0355	0.6025	0.0293	0.4970
78	26.67	-0.11	0.0666	0.0185	0.0510	0.2778	0.7656	1.2302	0.0353	0.6127	0.0287	0.4981
79	27.03	-0.11	0.0644	0.0175	0.0494	0.2717	0.7664	1.2235	0.0354	0.6086	0.0289	0.4974
80	27.35	-0.12	0.0718	0.0191	0.0528	0.2660	0.7357	1.2366	0.0350	0.6172	0.0283	0.4991
81	27.67	-0.10	0.0590	0.0173	0.0489	0.2932	0.8281	1.2393	0.0350	0.6181	0.0282	0.4987
82	27.95	-0.11	0.0605	0.0173	0.0485	0.2860	0.8010	1.2553	0.0344	0.6240	0.0274	0.4971
83	28.28	-0.13	0.0607	0.0166	0.0487	0.2735	0.8027	1.1956	0.0345	0.6004	0.0289	0.5022
84	28.59	-0.12	0.0591	0.0171	0.0496	0.2893	0.8391	1.2513	0.0341	0.6268	0.0273	0.5009
85	28.93	-0.11	0.0529	0.0162	0.0460	0.3062	0.8701	1.2388	0.0343	0.6198	0.0277	0.5003
86	29.24	-0.14	0.0515	0.0163	0.0463	0.3165	0.8983	1.2630	0.0336	0.6340	0.0266	0.5019
87	29.57	-0.06	0.0777	0.0203	0.0584	0.2613	0.7515	1.2628	0.0336	0.6299	0.0266	0.4988
88	29.84	-0.05	0.0654	0.0182	0.0515	0.2783	0.7873	1.2680	0.0332	0.6323	0.0262	0.4987
89	29.83	-0.10	0.0589	0.0177	0.0501	0.3005	0.8510	1.2711	0.0330	0.6315	0.0260	0.4969

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L'	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	5	1.05	1.7	0.0	B2WDF16	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.74	-0.03	-0.5018	1.6014	0.0739	-0.3014	0.0100	0.3816	-3.1912		
2	-2.63	0.03	-0.4776	1.4916	0.1107	-0.2140	0.0070	0.3792	-3.1228		
3	-2.02	-0.02	-0.3651	1.1370	0.0310	-0.2834	0.0090	0.3799	-3.1146		
4	-1.38	-0.01	-0.2386	0.7719	0.0487	-0.2431	0.0090	0.3674	-3.2357		
5	-0.83	-0.06	-0.1339	0.5214	-0.0341	-0.2652	0.0040	0.3756	-3.8944		
6	-0.30	-0.04	-0.0426	0.2626	-0.1438	-0.2077	0.0060	0.3815	-6.1653		
7	0.22	-0.04	0.0621	-0.0729	0.0728	-0.1539	0.0040	0.3817	-1.1746		
8	0.74	-0.07	0.1681	-0.3503	0.0339	-0.2544	0.0050	0.3741	-2.0841		
9	1.23	-0.06	0.2369	-0.4966	0.0193	-0.2430	0.0080	0.3670	-2.0965		
10	1.74	0.02	0.3215	-0.7860	0.2051	-0.1371	0.0090	0.3648	-2.4451		
11	2.20	-0.03	0.4489	-1.0475	0.1418	-0.0355	-0.0010	0.3643	-2.4445		
12	2.70	-0.01	0.5440	-1.3616	0.0364	-0.1269	0.0040	0.3661	-2.5027		
13	3.16	-0.01	0.6606	-1.7258	0.0389	-0.2024	0.0010	0.3615	-2.6123		
14	3.65	-0.01	0.7478	-2.0558	0.0229	-0.1560	-0.0010	0.3716	-2.7491		
15	4.10	-0.03	0.8436	-2.3059	-0.0292	-0.0421	-0.0030	0.3758	-2.7334		
16	4.54	-0.01	0.9685	-2.6487	0.0575	-0.1835	-0.0020	0.3564	-2.7349		
17	5.00	-0.02	1.0625	-2.9213	-0.0367	-0.1446	0.0040	0.3213	-2.7495		
18	5.43	-0.02	1.1809	-3.2241	0.0690	-0.1316	-0.0020	0.3119	-2.7301		
19	5.89	-0.02	1.2675	-3.5573	0.0269	-0.1126	0.0050	0.3373	-2.8065		
20	6.33	-0.02	1.3315	-3.7089	0.1380	-0.2092	0.0030	0.3465	-2.7854		
21	6.79	-0.04	1.4465	-3.9919	-0.0603	-0.1346	0.0030	0.3832	-2.7596		
22	7.22	-0.02	1.4996	-4.1352	0.0329	-0.1530	0.0	0.3943	-2.7575		
23	7.66	-0.02	1.5972	-4.3568	0.0728	-0.1639	-0.0030	0.4060	-2.7278		
24	8.08	-0.02	1.6284	-4.5324	-0.0122	-0.1759	0.0040	0.4012	-2.7834		
25	8.54	0.0	1.7383	-4.7533	0.0420	-0.1408	-0.0010	0.3973	-2.7345		
26	8.92	-0.01	1.7991	-4.9314	-0.0502	0.0093	-0.0070	0.3947	-2.7411		
27	9.34	-0.07	1.9276	-5.1704	0.0388	-0.0333	-0.0020	0.3715	-2.6822		
28	9.74	-0.07	1.9642	-5.3516	-0.1336	0.0990	-0.0040	0.3486	-2.7245		
29	10.15	-0.10	2.0978	-5.5256	0.1048	-0.1057	-0.0010	0.3355	-2.6340		
30	10.55	-0.04	2.1644	-5.7288	-0.0844	0.0372	-0.0040	0.3243	-2.6468		
31	10.93	-0.07	2.2156	-5.8515	-0.1408	0.0011	0.0050	0.3308	-2.6410		
32	11.31	-0.06	2.3051	-6.0228	-0.0394	-0.0208	-0.0040	0.3527	-2.6128		
33	11.67	-0.01	2.3803	-6.1410	0.0428	0.1671	-0.0100	0.3735	-2.5800		
34	12.04	-0.04	2.4454	-6.2532	-0.0310	0.0324	-0.0080	0.3832	-2.5571		
35	12.40	-0.04	2.5066	-6.3368	0.0668	-0.0415	-0.0080	0.3817	-2.5281		
36	12.76	-0.04	2.5730	-6.4488	0.0445	0.1107	-0.0180	0.3844	-2.5064		
37	13.12	-0.03	2.6235	-6.4965	-0.0623	0.1142	-0.0160	0.3773	-2.4763		
38	13.51	-0.07	2.6827	-6.4905	-0.0001	0.1031	-0.0090	0.3709	-2.4193		
39	13.87	-0.08	2.7037	-6.4349	-0.0625	0.0990	-0.0040	0.3589	-2.3800		
40	14.20	-0.06	2.7223	-6.3270	-0.0042	-0.0351	-0.0060	0.3639	-2.3241		
41	14.59	-0.07	2.7037	-6.0739	-0.0911	0.0805	-0.0920	0.3487	-2.2465		
42	14.94	-0.05	2.7842	-6.1176	0.0549	0.0141	-0.0090	0.3315	-2.1972		
43	15.30	-0.07	2.8124	-6.0261	-0.1304	0.1215	-0.0370	0.3471	-2.1427		
44	15.61	-0.07	2.8350	-6.0688	-0.0098	0.0867	-0.0410	0.3245	-2.1406		
45	15.96	-0.10	2.9381	-6.1491	-0.1189	0.1014	-0.0400	0.3423	-2.0929		
46	16.28	-0.09	3.0462	-6.4204	-0.0753	0.0494	-0.0560	0.3565	-2.1077		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	5	1.05	1.7	0.0	B2HOF16	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP		
47	16.63	-0.09	3.1240	-6.4923	0.0244	0.0838	-0.0580	0.3496	-2.0782		
48	16.95	-0.08	3.2191	-6.6424	-0.0540	0.1026	-0.0590	0.3588	-2.0635		
49	17.28	-0.06	3.2577	-6.7695	-0.0235	0.2329	-0.0570	0.3541	-2.0780		
50	17.61	-0.08	3.3501	-6.8738	-0.0986	0.2790	-0.0530	0.3456	-2.0518		
51	17.93	-0.06	3.4313	-6.9525	-0.0775	0.1055	-0.0630	0.3241	-2.0262		
52	18.28	-0.07	3.5238	-7.0821	-0.1029	0.3450	-0.0680	0.3329	-2.0098		
53	18.61	-0.04	3.6362	-7.1684	0.0237	0.1228	-0.0670	0.3342	-1.9714		
54	18.95	-0.05	3.6745	-7.2021	-0.0625	0.4224	-0.0730	0.3293	-1.9600		
55	19.24	-0.05	3.7385	-7.3236	-0.0369	0.1496	-0.0710	0.3265	-1.9590		
56	19.57	-0.05	3.8379	-7.4358	-0.0542	0.1549	-0.0650	0.3223	-1.9375		
57	19.91	-0.06	3.9093	-7.5247	-0.0111	0.1365	-0.0690	0.3148	-1.9248		
58	20.27	-0.10	3.9713	-7.5305	-0.0556	0.2588	-0.0720	0.3106	-1.8962		
59	20.60	-0.08	4.0879	-7.6138	-0.0009	0.2652	-0.0840	0.2963	-1.8625		
60	20.97	-0.10	4.1662	-7.6104	0.0073	-0.0392	-0.0800	0.2788	-1.8267		
61	21.30	-0.12	4.2129	-7.6219	-0.0501	0.2891	-0.0890	0.2683	-1.8092		
62	21.61	-0.05	4.3819	-7.8155	0.0223	0.4097	-0.0930	0.2723	-1.7836		
63	21.94	-0.10	4.4530	-7.8270	-0.0337	0.2641	-0.0840	0.2599	-1.7577		
64	22.23	-0.09	4.4582	-7.8233	-0.0317	0.3493	-0.0980	0.2592	-1.7392		
65	22.55	-0.10	4.6135	-7.8697	-0.0219	0.3676	-0.0960	0.2566	-1.7058		
66	22.86	-0.06	4.6694	-7.9970	-0.0701	0.1381	-0.0800	0.2571	-1.7126		
67	23.20	-0.09	4.8291	-8.0665	-0.0956	-0.0232	-0.0610	0.2656	-1.6704		
68	23.54	-0.09	4.9406	-7.9946	0.1912	-0.2007	-0.0650	0.2663	-1.6182		
69	23.84	-0.06	4.9458	-8.0279	0.0919	-0.0157	-0.0670	0.2611	-1.6232		
70	24.17	-0.11	5.0394	-8.0921	0.0474	-0.1523	-0.0630	0.2449	-1.6057		
71	24.49	-0.09	5.1259	-8.0902	0.0078	-0.0419	-0.0650	0.2407	-1.5733		
72	24.81	-0.10	5.1770	-8.0297	-0.0552	0.0713	-0.0890	0.2267	-1.5510		
73	25.10	-0.09	5.3094	-8.0531	-0.0323	0.3162	-0.1070	0.2345	-1.5168		
74	25.43	-0.10	5.4122	-8.0350	-0.0576	0.2836	-0.0890	0.2294	-1.4846		
75	25.73	-0.12	5.4836	-8.1250	0.2076	-0.5266	-0.0220	0.2269	-1.4817		
76	26.03	-0.12	5.5962	-8.0296	0.0795	-0.2413	-0.0560	0.2332	-1.4348		
77	26.32	-0.12	5.6465	-8.0460	0.0702	-0.1373	-0.0670	0.2352	-1.4250		
78	26.67	-0.12	5.8220	-7.9459	0.0974	-0.1683	-0.0450	0.2235	-1.3648		
79	26.96	-0.13	5.9216	-7.9543	0.0724	-0.2553	-0.0530	0.2206	-1.3433		
80	27.30	-0.09	6.0854	-7.8626	0.2046	-0.2894	-0.0490	0.2142	-1.2921		
81	27.61	-0.09	6.1390	-7.7827	0.1697	-0.2765	-0.0290	0.2049	-1.2677		
82	27.92	-0.11	6.2754	-7.8467	0.1255	-0.4266	-0.0060	0.1955	-1.2504		
83	28.24	-0.10	6.4098	-7.6768	-0.0621	0.4489	-0.1140	0.1691	-1.1977		
84	28.55	-0.13	6.5094	-7.6804	0.0633	-0.1016	-0.0490	0.1505	-1.1799		
85	28.90	-0.15	6.7067	-7.6166	-0.1291	0.2127	-0.0710	0.1429	-1.1357		
86	29.20	-0.13	6.7162	-7.4640	-0.0491	-0.0523	-0.0390	0.1233	-1.1113		
87	29.54	-0.13	6.9336	-7.5293	0.0795	-0.3902	0.0180	0.1088	-1.0859		
88	29.85	-0.11	7.0615	-7.5204	-0.0152	-0.0887	-0.0700	0.1124	-1.0650		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		5.1-05	1.7	0.0	B2M0F16	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.74	-0.03	0.0541	0.0026	0.0093	0.0481	0.1724	-0.1762	-0.0475	-0.1068	0.2696	0.6062
2	-2.63	0.03	0.0497	0.0010	0.0051	0.0201	0.1018	-0.1692	-0.0464	-0.1029	0.2742	0.6080
3	-2.02	-0.02	0.0553	0.0020	0.0064	0.0362	0.1253	-0.1011	-0.0365	-0.0757	0.3610	0.7486
4	-1.38	-0.01	0.0553	0.0020	0.0064	0.0362	0.1253	-0.0515	-0.0265	-0.0548	0.5146	1.0633
5	-0.83	-0.06	0.0539	0.0016	0.0058	0.0297	0.1069	-0.0185	-0.0178	-0.0421	0.9622	2.2738
6	-0.30	-0.04	0.0473	0.0013	0.0057	0.0275	0.1197	0.0185	-0.0076	-0.0250	-0.4108	-1.3533
7	0.22	-0.04	0.0445	0.0010	0.0045	0.0225	0.1018	0.0606	0.0024	-0.0327	0.0396	-0.0447
8	0.74	-0.07	0.0537	0.0026	0.0092	0.0484	0.1712	0.0996	0.0108	0.0168	0.1084	0.1686
9	1.23	-0.06	0.0592	0.0038	0.0105	0.0642	0.1778	0.1268	0.0192	0.0289	0.1514	0.2275
10	1.74	0.02	0.0593	-0.0001	0.0123	-0.0017	0.2067	0.1746	0.0320	0.0503	0.1833	0.2880
11	2.20	-0.03	0.0459	-0.0005	0.0075	-0.0109	0.1633	0.2158	0.0378	0.0697	0.1752	0.3230
12	2.70	-0.01	0.0521	0.0017	0.0101	0.0326	0.1931	0.2570	0.0426	0.0843	0.1665	0.3282
13	3.16	-0.01	0.0439	0.0018	0.0075	0.0410	0.1715	0.2950	0.0500	0.1020	0.1695	0.3458
14	3.65	-0.01	0.0568	0.0025	0.0101	0.0460	0.1783	0.3418	0.0556	0.1244	0.1627	0.3639
15	4.10	-0.03	0.0490	0.0014	0.0084	0.0268	0.1720	0.3820	0.0565	0.1427	0.1531	0.3735
16	4.54	-0.01	0.0460	0.0018	0.0073	0.0391	0.1593	0.4187	0.0596	0.1563	0.1423	0.3733
17	5.00	-0.02	0.0403	0.0005	0.0066	0.0124	0.1645	0.4536	0.0651	0.1736	0.1435	0.3828
18	5.43	-0.02	0.0437	0.0	0.0079	0.0	0.1799	0.5021	0.0692	0.1921	0.1378	0.3826
19	5.89	-0.02	0.0447	-0.0004	0.0052	-0.0089	0.2057	0.5512	0.0707	0.2149	0.1283	0.3898
20	6.33	-0.02	0.0433	-0.0006	0.0080	-0.0135	0.1854	0.5714	0.0707	0.2235	0.1237	0.3911
21	6.79	-0.04	0.0487	-0.0001	0.0087	-0.0021	0.1792	0.6157	0.0636	0.2419	0.1130	0.3928
22	7.22	-0.02	0.0651	0.0006	0.0126	0.0092	0.1934	0.6428	0.0702	0.2536	0.1092	0.3945
23	7.66	-0.02	0.0581	-0.0003	0.0111	-0.0052	0.1904	0.6761	0.0717	0.2688	0.1057	0.3963
24	8.08	-0.02	0.0507	-0.0009	0.0070	-0.0129	0.1233	0.6962	0.0722	0.2745	0.1037	0.3943
25	8.54	0.0	0.0502	-0.0010	0.0070	-0.0199	0.1400	0.7306	0.0722	0.2887	0.0988	0.3952
26	8.92	-0.01	0.0518	-0.0003	0.0084	-0.0058	0.1614	0.7699	0.0720	0.3038	0.0935	0.3947
27	9.34	-0.07	0.0376	-0.0006	0.0087	-0.0160	0.2322	0.7952	0.0723	0.3161	0.0909	0.3975
28	9.74	-0.07	0.0348	-0.0013	0.0083	-0.0374	0.2384	0.8297	0.0774	0.3322	0.0933	0.4003
29	10.15	-0.10	0.0394	-0.0010	0.0132	-0.0254	0.3358	0.8479	0.0798	0.3403	0.0941	0.4020
30	10.55	-0.04	0.0270	-0.0015	0.0090	-0.0556	0.3332	0.8748	0.0826	0.3533	0.0944	0.4039
31	10.93	-0.07	0.0280	-0.0018	0.0091	-0.0643	0.3261	0.8936	0.0840	0.3644	0.0940	0.4077
32	11.31	-0.06	0.0286	-0.0011	0.0090	-0.0385	0.3157	0.9270	0.0833	0.3749	0.0899	0.4064
33	11.67	-0.01	0.0182	-0.0018	0.0065	-0.0989	0.3552	0.9514	0.0827	0.3840	0.0869	0.4036
34	12.04	-0.04	0.0235	-0.0009	0.0087	-0.0383	0.3715	0.9715	0.0826	0.3934	0.0850	0.4050
35	12.40	-0.04	0.0266	-0.0002	0.0092	-0.0075	0.3445	0.9841	0.0834	0.3983	0.0847	0.4048
36	12.76	-0.04	0.0130	-0.0029	-0.0002	-0.2231	-0.0129	1.0090	0.0840	0.4099	0.0832	0.4059
37	13.12	-0.03	0.0159	-0.0017	0.0043	-0.1069	0.2703	1.0217	0.0852	0.4136	0.0834	0.4049
38	13.51	-0.07	0.0062	-0.0038	-0.0021	-0.6129	-0.3442	1.0080	0.0942	0.4128	0.0935	0.4095
39	13.87	-0.08	0.0052	-0.0038	-0.0043	-0.7308	-0.8206	1.0012	0.0950	0.4136	0.0949	0.4131
40	14.20	-0.06	0.0052	-0.0048	-0.0002	-0.9231	-0.0322	1.0229	0.0939	0.4219	0.0918	0.4125
41	14.59	-0.07	0.0113	-0.0064	0.0024	-0.5064	0.2093	1.0387	0.0928	0.4296	0.0893	0.4136
42	14.94	-0.05	0.0034	-0.0074	-0.0016	-2.1765	-0.4609	1.0087	0.0724	0.4028	0.0718	0.3993
43	15.30	-0.07	0.0006	-0.0064	-0.0040	-10.6667	-6.6668	0.9866	0.0620	0.3996	0.0628	0.4051
44	15.61	-0.07	-0.0021	-0.0073	-0.0089	3.4762	4.2380	0.9941	0.0589	0.3984	0.0592	0.4008
45	15.96	-0.10	-0.0050	-0.0072	-0.0058	1.4400	1.1532	1.0204	0.0578	0.4089	0.0566	0.4007
46	16.28	-0.09	-0.0062	-0.0086	-0.0159	1.3871	2.5590	1.0497	0.0554	0.4248	0.0528	0.4047

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNLF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		5		1.05		1.7	0.0	82M0F16	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	Cd1	XC PF1	YCPF1	CNF2	CH2	Cd2	XC PF2	YCPF2	
47	16.63	-0.09	-0.0068	-0.0094	-0.0162	1.3824	2.3773	1.0671	0.0537	0.4327	0.0503	0.4055	
48	16.95	-0.08	-0.0095	-0.0097	-0.0176	1.0211	1.8490	1.0925	0.0512	0.4423	0.0469	0.4049	
49	17.28	-0.06	-0.0185	-0.0123	-0.0235	0.6649	1.2683	1.1116	0.0497	0.4472	0.0447	0.4023	
50	17.61	-0.08	-0.0214	-0.0127	-0.0230	0.5935	1.0762	1.1316	0.0471	0.4565	0.0416	0.4034	
51	17.93	-0.06	-0.0165	-0.0106	-0.0180	0.6424	1.0908	1.1369	0.0458	0.4571	0.0403	0.4021	
52	18.28	-0.07	-0.0316	-0.0153	-0.0300	0.4842	0.9503	1.1642	0.0447	0.4690	0.0384	0.4029	
53	18.61	-0.04	-0.0251	-0.0125	-0.0231	0.4480	0.9189	1.1867	0.0436	0.4784	0.0367	0.4032	
54	18.95	-0.05	-0.0341	-0.0147	-0.0270	0.4311	0.7907	1.1910	0.0431	0.4822	0.0362	0.4048	
55	19.24	-0.05	-0.0396	-0.0160	-0.0315	0.4040	0.8054	1.2066	0.0422	0.4878	0.0350	0.4042	
56	19.57	-0.05	-0.0292	-0.0138	-0.0295	0.4726	1.0113	1.2228	0.0412	0.4945	0.0337	0.4044	
57	19.91	-0.06	-0.0274	-0.0129	-0.0284	0.4708	1.0376	1.2351	0.0406	0.5009	0.0329	0.4055	
58	20.27	-0.10	-0.0357	-0.0141	-0.0310	0.3950	0.8682	1.2427	0.0401	0.5030	0.0323	0.4048	
59	20.60	-0.08	-0.0478	-0.0152	-0.0332	0.3180	0.6351	1.2652	0.0390	0.5126	0.0308	0.4051	
60	20.97	-0.10	-0.0461	-0.0152	-0.0366	0.3297	0.7931	1.2685	0.0390	0.5162	0.0307	0.4069	
61	21.30	-0.12	-0.0445	-0.0146	-0.0357	0.3281	0.8029	1.2794	0.0382	0.5203	0.0299	0.4067	
62	21.61	-0.05	-0.0411	-0.0138	-0.0373	0.3358	0.9074	1.3050	0.0374	0.5300	0.0287	0.4062	
63	21.94	-0.10	-0.0469	-0.0147	-0.0376	0.3134	0.8023	1.3161	0.0368	0.5357	0.0280	0.4071	
64	22.23	-0.09	-0.0700	-0.0174	-0.0454	0.2486	0.6489	1.3246	0.0366	0.5410	0.0276	0.4084	
65	22.55	-0.10	-0.0420	-0.0132	-0.0370	0.3143	0.8808	1.3398	0.0359	0.5461	0.0268	0.4076	
66	22.86	-0.06	-0.0199	-0.0103	-0.0309	0.5176	1.5543	1.3538	0.0355	0.5508	0.0262	0.4069	
67	23.20	-0.09	0.0088	-0.0063	-0.0182	-0.7159	-2.0645	1.3751	0.0349	0.5590	0.0254	0.4065	
68	23.54	-0.09	0.0149	-0.0063	-0.0155	-0.4228	-1.0426	1.3855	0.0342	0.5650	0.0247	0.4078	
69	23.84	-0.06	0.0502	-0.0019	-0.0056	-0.0378	-0.1110	1.3952	0.0336	0.5676	0.0241	0.4068	
70	24.17	-0.11	0.0315	-0.0040	-0.0116	-0.1270	-0.3684	1.4003	0.0333	0.5693	0.0238	0.4066	
71	24.49	-0.09	0.0346	-0.0034	-0.0112	-0.0983	-0.3229	1.4140	0.0327	0.5753	0.0231	0.4068	
72	24.81	-0.10	-0.0363	-0.0122	-0.0441	0.3361	1.2148	1.4213	0.0321	0.5797	0.0226	0.4079	
73	25.10	-0.09	-0.0710	-0.0140	-0.0533	0.1972	0.7501	1.4367	0.0321	0.5862	0.0223	0.4080	
74	25.43	-0.10	-0.0072	-0.0062	-0.0235	0.8611	3.3193	1.4465	0.0312	0.5885	0.0216	0.4068	
75	25.73	-0.12	0.1275	0.0091	0.0376	0.0714	0.2948	1.4540	0.0306	0.5919	0.0210	0.4071	
76	26.03	-0.12	0.0407	0.0003	-0.0013	-0.0074	-0.0329	1.4775	0.0297	0.6032	0.0201	0.4083	
77	26.32	-0.12	0.0551	0.0016	0.0055	0.0290	0.0791	1.4884	0.0297	0.6057	0.0200	0.4069	
78	26.67	-0.12	0.0479	-0.0005	-0.0013	-0.0104	-0.0280	1.4918	0.0286	0.6084	0.0192	0.4078	
79	26.96	-0.13	0.0024	-0.0056	-0.0245	-2.3333	-10.3751	1.5074	0.0282	0.6145	0.0187	0.4076	
80	27.30	-0.09	-0.0162	-0.0097	-0.0445	0.5588	2.7715	1.5104	0.0278	0.6174	0.0184	0.4088	
81	27.61	-0.09	0.0494	0.0023	0.0027	0.0466	0.0539	1.5080	0.0276	0.6128	0.0183	0.4064	
82	27.92	-0.11	0.0926	0.0064	0.0229	0.0691	0.2468	1.5182	0.0268	0.6191	0.0177	0.4078	
83	28.24	-0.10	0.0477	0.0053	0.0148	0.1111	0.3102	1.5160	0.0267	0.6169	0.0176	0.4069	
84	28.55	-0.13	0.1067	0.0085	0.0310	0.0797	0.2901	1.5137	0.0270	0.6164	0.0178	0.4072	
85	28.90	-0.15	0.0285	-0.0008	-0.0063	-0.0261	-0.2212	1.5244	0.0268	0.6204	0.0176	0.4069	
86	29.20	-0.13	0.0695	0.0025	0.0119	0.0360	0.1706	1.5094	0.0271	0.6142	0.0180	0.4069	
87	29.54	-0.13	0.1737	0.0163	0.0781	0.0938	0.4495	1.5206	0.0272	0.6172	0.0179	0.4059	
88	29.85	-0.11	0.0935	0.0085	0.0402	0.0909	0.4295	1.5308	0.0267	0.6228	0.0174	0.4068	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	5	1.05	1.7	0.0	82WOF16	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.74	-0.03	0.0187	0.0064	0.0182	0.3422	0.9749	-0.3358	-0.0446	-0.0715	0.1328	0.2129
2	-2.63	0.03	0.0726	0.0068	0.0184	0.3009	0.8155	-0.3272	-0.0438	-0.0671	0.1339	0.2052
3	-2.02	-0.02	0.0147	0.0062	0.0187	0.4218	1.2720	-0.2627	-0.0339	-0.0408	0.1290	0.1554
4	-1.38	-0.01	0.0185	0.0064	0.0195	0.3459	1.0738	-0.2186	-0.0243	-0.0207	0.1112	0.0949
5	-0.83	-0.06	0.0248	0.0075	0.0204	0.3024	0.8211	-0.1808	-0.0138	-0.0062	0.0763	0.0345
6	-0.30	-0.04	0.0258	0.0080	0.0220	0.3101	0.8526	-0.1381	-0.0044	0.0110	0.0319	-0.0795
7	0.22	-0.04	0.0196	0.0067	0.0203	0.3418	1.0173	-0.0901	0.0042	0.0324	-0.0466	-0.3593
8	0.74	-0.07	0.0233	0.0072	0.0212	0.3090	0.9083	-0.0531	0.0119	0.0492	-0.2241	-0.9267
9	1.23	-0.06	0.0281	0.0060	0.0219	0.2847	0.7781	-0.0229	0.0200	0.0619	-0.8734	-2.7017
10	1.74	0.02	0.0184	0.0054	0.0201	0.2935	1.0941	0.0111	0.0304	0.0790	2.7387	7.1170
11	2.20	-0.03	0.0182	0.0061	0.0193	0.3352	1.0585	0.0544	0.0390	0.0974	0.7169	1.7909
12	2.70	-0.01	0.0183	0.0058	0.0192	0.3169	1.0491	0.1017	0.0459	0.1161	0.4513	1.1415
13	3.16	-0.01	0.0235	0.0091	0.0245	0.3447	1.0439	0.1456	0.0515	0.1377	0.3537	0.9459
14	3.65	-0.01	0.0301	0.0082	0.0250	0.2724	0.8316	0.1869	0.0558	0.1563	0.2986	0.8362
15	4.10	-0.03	0.0228	0.0077	0.0235	0.3377	1.0306	0.2217	0.0591	0.1720	0.2666	0.7757
16	4.54	-0.01	0.0269	0.0079	0.0235	0.2937	0.8722	0.2663	0.0601	0.1916	0.2257	0.7196
17	5.00	-0.02	0.0285	0.0079	0.0232	0.2772	0.8139	0.3070	0.0649	0.2109	0.2114	0.6870
18	5.43	-0.02	0.0323	0.0087	0.0246	0.2693	0.7605	0.3464	0.0682	0.2291	0.1969	0.6614
19	5.89	-0.02	0.0360	0.0098	0.0265	0.2722	0.7360	0.4003	0.0685	0.2551	0.1711	0.6372
20	6.33	-0.02	0.0370	0.0101	0.0280	0.2730	0.7575	0.4256	0.0685	0.2647	0.1609	0.6220
21	6.79	-0.04	0.0358	0.0098	0.0272	0.2737	0.7606	0.4602	0.0677	0.2790	0.1471	0.6064
22	7.22	-0.02	0.0441	0.0117	0.0307	0.2653	0.6960	0.4898	0.0670	0.2900	0.1368	0.5921
23	7.66	-0.02	0.0399	0.0116	0.0312	0.2907	0.7618	0.5287	0.0686	0.3056	0.1298	0.5760
24	8.08	-0.02	0.0421	0.0122	0.0315	0.2898	0.7584	0.5577	0.0693	0.3176	0.1243	0.5695
25	8.54	0.0	0.0431	0.0126	0.0330	0.2923	0.7648	0.5854	0.0701	0.3313	0.1197	0.5659
26	8.92	-0.01	0.0378	0.0133	0.0312	0.3519	0.8253	0.6091	0.0697	0.3417	0.1144	0.5609
27	9.34	-0.07	0.0301	0.0130	0.0288	0.4319	0.9578	0.6434	0.0717	0.3581	0.1114	0.5566
28	9.74	-0.07	0.0302	0.0134	0.0286	0.4437	0.9458	0.6732	0.0760	0.3715	0.1129	0.5519
29	10.15	-0.10	0.0290	0.0133	0.0281	0.4586	0.9677	0.6913	0.0779	0.3806	0.1127	0.5505
30	10.55	-0.04	0.0343	0.0138	0.0284	0.4023	0.8434	0.7259	0.0812	0.3995	0.1119	0.5503
31	10.93	-0.07	0.0344	0.0138	0.0283	0.4012	0.8216	0.7488	0.0824	0.4082	0.1100	0.5452
32	11.31	-0.06	0.0350	0.0150	0.0320	0.4286	0.9132	0.7808	0.0811	0.4210	0.1039	0.5392
33	11.67	-0.01	0.0415	0.0156	0.0327	0.3759	0.7686	0.8043	0.0809	0.4328	0.1006	0.5381
34	12.04	-0.04	0.0459	0.0172	0.0354	0.3747	0.7711	0.8171	0.0796	0.4376	0.0974	0.5355
35	12.40	-0.04	0.0470	0.0176	0.0360	0.3745	0.7651	0.8436	0.0807	0.4501	0.0957	0.5335
36	12.76	-0.04	0.0419	0.0168	0.0356	0.4010	0.8487	0.8534	0.0811	0.4550	0.0950	0.5331
37	13.12	-0.03	0.0418	0.0166	0.0355	0.3971	0.8500	0.8659	0.0824	0.4626	0.0952	0.5343
38	13.51	-0.07	0.0457	0.0173	0.0350	0.3786	0.7665	0.8763	0.0846	0.4705	0.0965	0.5369
39	13.87	-0.08	0.0530	0.0185	0.0388	0.3491	0.7313	0.8853	0.0912	0.4771	0.1030	0.5389
40	14.20	-0.06	0.0456	0.0170	0.0374	0.3728	0.8201	0.8364	0.0942	0.4592	0.1126	0.5490
41	14.59	-0.07	0.0374	0.0144	0.0348	0.3850	0.9295	0.7641	0.0643	0.4150	0.0842	0.5431
42	14.94	-0.05	0.0462	0.0160	0.0376	0.3463	0.8137	0.7788	0.0622	0.4230	0.0799	0.5432
43	15.30	-0.07	0.0402	0.0146	0.0351	0.3632	0.8730	0.8073	0.0618	0.4343	0.0766	0.5380
44	15.61	-0.07	0.0497	0.0171	0.0399	0.3441	0.8020	0.8184	0.0549	0.4417	0.0732	0.5357
45	15.96	-0.10	0.0424	0.0153	0.0374	0.3608	0.8827	0.8406	0.0587	0.4490	0.0698	0.5341
46	16.28	-0.09	0.0479	0.0180	0.0421	0.3758	0.8781	0.8629	0.0581	0.4625	0.0673	0.5360

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH R10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 5 1.05 1.7			0.0	82NOF16	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	16.63	-0.04	0.0506	0.0178	0.0419	0.3518	0.8273	0.8875	0.0564	0.4704	0.0635	0.5301
48	16.95	-0.08	0.0443	0.0169	0.0395	0.3815	0.8908	0.9076	0.0548	0.4787	0.0604	0.5275
49	17.28	-0.06	0.0393	0.0158	0.0383	0.4020	0.9744	0.9261	0.0518	0.4859	0.0559	0.5247
50	17.61	-0.08	0.0455	0.0168	0.0401	0.3692	0.8805	0.9479	0.0494	0.4944	0.0521	0.5215
51	17.93	-0.06	0.0490	0.0176	0.0427	0.3592	0.8720	0.9561	0.0474	0.4990	0.0496	0.5219
52	18.28	-0.07	0.0578	0.0192	0.0441	0.3322	0.7623	0.9809	0.0467	0.5111	0.0476	0.5211
53	18.61	-0.04	0.0501	0.0181	0.0433	0.3613	0.8642	0.9962	0.0455	0.5193	0.0457	0.5213
54	18.95	-0.05	0.0543	0.0179	0.0428	0.3297	0.7881	1.0076	0.0450	0.5235	0.0447	0.5196
55	19.24	-0.05	0.0489	0.0176	0.0427	0.3599	0.8731	1.0222	0.0439	0.5308	0.0429	0.5193
56	19.57	-0.05	0.0529	0.0181	0.0424	0.3422	0.8020	1.0362	0.0430	0.5404	0.0415	0.5215
57	19.91	-0.06	0.0541	0.0184	0.0427	0.3401	0.7898	1.0530	0.0420	0.5469	0.0399	0.5193
58	20.27	-0.10	0.0491	0.0170	0.0427	0.3462	0.8689	1.0555	0.0417	0.5475	0.0395	0.5187
59	20.60	-0.08	0.0578	0.0187	0.0447	0.3235	0.7727	1.0720	0.0405	0.5555	0.0378	0.5182
60	20.97	-0.10	0.0584	0.0197	0.0490	0.3373	0.8384	1.0799	0.0403	0.5598	0.0373	0.5184
61	21.30	-0.12	0.0578	0.0188	0.0448	0.3253	0.7744	1.0911	0.0399	0.5631	0.0366	0.5161
62	21.61	-0.05	0.0465	0.0170	0.0421	0.3656	0.9053	1.1029	0.0394	0.5725	0.0357	0.5191
63	21.94	-0.10	0.0531	0.0174	0.0425	0.3277	0.8003	1.1117	0.0386	0.5767	0.0347	0.5188
64	22.23	-0.09	0.0531	0.0173	0.0433	0.3258	0.8153	1.1168	0.0385	0.5781	0.0345	0.5177
65	22.55	-0.10	0.0642	0.0192	0.0473	0.2991	0.7366	1.1338	0.0381	0.5861	0.0336	0.5169
66	22.86	-0.06	0.0593	0.0185	0.0453	0.3120	0.7632	1.1417	0.0380	0.5907	0.0333	0.5174
67	23.20	-0.09	0.0617	0.0191	0.0460	0.3096	0.7449	1.1586	0.0375	0.6010	0.0324	0.5187
68	23.54	-0.09	0.0622	0.0197	0.0494	0.3167	0.7946	1.1695	0.0367	0.6038	0.0314	0.5163
69	23.84	-0.06	0.0621	0.0198	0.0486	0.3188	0.7825	1.1774	0.0363	0.6072	0.0308	0.5157
70	24.17	-0.11	0.0683	0.0207	0.0511	0.3031	0.7476	1.1772	0.0362	0.6089	0.0308	0.5172
71	24.49	-0.09	0.0654	0.0209	0.0522	0.3196	0.7980	1.1928	0.0357	0.6155	0.0299	0.5160
72	24.81	-0.10	0.0656	0.0204	0.0521	0.3110	0.7936	1.1964	0.0349	0.6159	0.0292	0.5148
73	25.10	-0.09	0.0633	0.0196	0.0506	0.3096	0.7992	1.2070	0.0344	0.6209	0.0285	0.5144
74	25.43	-0.10	0.0563	0.0179	0.0456	0.3179	0.8092	1.2194	0.0339	0.6283	0.0278	0.5153
75	25.73	-0.12	0.0732	0.0214	0.0529	0.2923	0.7226	1.2246	0.0338	0.6321	0.0276	0.5161
76	26.03	-0.12	0.0693	0.0208	0.0531	0.3001	0.7661	1.2451	0.0328	0.6420	0.0263	0.5156
77	26.32	-0.12	0.0633	0.0192	0.0503	0.3033	0.7945	1.2526	0.0325	0.6450	0.0259	0.5149
78	26.67	-0.12	0.0618	0.0188	0.0506	0.3042	0.8187	1.2547	0.0318	0.6472	0.0253	0.5158
79	26.96	-0.13	0.0653	0.0197	0.0518	0.3017	0.7926	1.2633	0.0313	0.6517	0.0248	0.5159
80	27.30	-0.09	0.0741	0.0202	0.0546	0.2726	0.7367	1.2680	0.0309	0.6532	0.0244	0.5152
81	27.61	-0.09	0.0567	0.0180	0.0488	0.3175	0.8606	1.2691	0.0307	0.6515	0.0242	0.5133
82	27.92	-0.11	0.0604	0.0188	0.0500	0.3113	0.8282	1.2768	0.0304	0.6576	0.0238	0.5151
83	28.24	-0.10	0.0716	0.0209	0.0560	0.2919	0.7815	1.2738	0.0305	0.6550	0.0239	0.5142
84	28.55	-0.13	0.0659	0.0194	0.0535	0.2944	0.8173	1.2728	0.0309	0.6551	0.0243	0.5147
85	28.90	-0.15	0.0612	0.0188	0.0514	0.3072	0.8398	1.2721	0.0310	0.6581	0.0244	0.5173
86	29.20	-0.13	0.0740	0.0202	0.0558	0.2736	0.7535	1.2558	0.0317	0.6487	0.0252	0.5165
87	29.54	-0.13	0.0701	0.0204	0.0554	0.2910	0.7897	1.2716	0.0314	0.6572	0.0247	0.5168
88	29.85	-0.11	0.0777	0.0210	0.0595	0.2703	0.7656	1.2728	0.0312	0.6571	0.0245	0.5163

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CUNF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
0	6.1-10	1.7	0.0	82WOF16	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.74	0.01	-0.4616	1.5982	0.1592	-0.2358	0.0120	0.3796	-3.4619	
2	-2.73	0.0	-0.4492	1.6068	0.0865	-0.1946	0.0070	0.3743	-3.5767	
3	-2.75	-0.02	-0.5128	1.5869	-0.0134	-0.3212	0.0090	0.3792	-3.0943	
4	-2.31	-0.06	-0.4426	1.4126	-0.0470	-0.2132	0.0110	0.3744	-3.1913	
5	-1.68	-0.01	-0.3642	1.1867	0.0467	-0.2853	0.0160	0.3773	-3.2589	
6	-1.13	-0.01	-0.2226	0.7325	-0.0221	-0.1240	0.0090	0.3664	-3.2913	
7	-0.55	-0.02	-0.1232	0.4734	-0.0451	-0.1698	0.0100	0.3659	-3.8432	
8	-0.03	0.01	0.0369	0.0713	0.1459	-0.2082	0.0050	0.3655	-1.9333	
9	0.50	-0.01	0.1066	-0.1402	0.0489	-0.2334	0.0070	0.3671	-1.3156	
10	0.97	-0.01	0.2036	-0.3610	0.0363	-0.1608	0.0120	0.3625	-1.7733	
11	1.49	-0.02	0.2610	-0.5233	-0.0148	-0.0823	0.0090	0.3688	-2.0054	
12	1.94	-0.01	0.3967	-0.9084	0.0029	-0.1710	0.0050	0.3610	-2.2896	
13	2.40	0.0	0.4803	-1.2054	0.2448	-0.3007	0.0020	0.3740	-2.5095	
14	2.90	-0.06	0.5644	-1.5131	0.0357	-0.2040	0.0050	0.3807	-2.6808	
15	3.39	-0.08	0.6434	-1.8527	0.0233	-0.1146	0.0030	0.3778	-2.5686	
16	3.86	-0.05	0.8097	-2.0564	-0.0388	-0.0067	0.0020	0.3718	-2.5398	
17	4.31	0.0	0.9053	-2.4042	0.0316	-0.0372	-0.0010	0.3693	-2.6558	
18	4.76	-0.03	0.9863	-2.6356	-0.0059	-0.0467	0.0070	0.3748	-2.6723	
19	5.21	0.0	1.0586	-2.8158	0.0437	-0.1712	-0.0020	0.3636	-2.6600	
20	5.66	-0.04	1.1215	-3.0308	0.0002	-0.0353	-0.0010	0.3783	-2.7026	
21	6.10	-0.03	1.2040	-3.2845	0.0262	-0.1437	0.0040	0.3900	-2.7112	
22	6.53	0.0	1.2876	-3.4455	0.1886	-0.1520	0.0	0.3937	-2.6758	
23	6.99	-0.08	1.3712	-3.6645	-0.0065	-0.0799	0.0040	0.3969	-2.6724	
24	7.42	0.0	1.4757	-3.9237	0.0429	-0.1570	0.0	0.3943	-2.6589	
25	7.85	-0.08	1.5296	-4.0932	0.0382	-0.2095	-0.0060	0.3977	-2.6760	
26	8.29	0.0	1.6466	-4.2600	0.0660	-0.0884	0.0070	0.3825	-2.5871	
27	8.73	0.01	1.6867	-4.4551	0.0055	-0.0617	0.0040	0.3913	-2.6413	
28	9.12	-0.05	1.7572	-4.6228	-0.0083	-0.1044	-0.0020	0.3984	-2.6308	
29	9.54	-0.04	1.8855	-4.8833	0.1465	-0.1541	-0.0060	0.3942	-2.5900	
30	9.93	-0.04	1.9340	-4.9824	0.1001	-0.1261	-0.0070	0.3899	-2.5761	
31	10.34	-0.12	1.9413	-5.1166	0.0596	-0.0984	-0.0040	0.3851	-2.6356	
32	10.73	-0.06	2.0786	-5.3728	0.0071	-0.0429	-0.0050	0.3677	-2.5848	
33	11.13	-0.05	2.1634	-5.5195	0.0306	-0.0208	-0.0110	0.3821	-2.5513	
34	11.49	-0.05	2.2480	-5.6649	0.0556	-0.1258	-0.0130	0.3823	-2.5200	
35	11.84	-0.05	2.2941	-5.8014	0.0353	0.0126	-0.0100	0.3776	-2.5288	
36	12.22	-0.07	2.3878	-5.9016	-0.1180	-0.0078	-0.0140	0.3868	-2.4716	
37	12.57	-0.05	2.4484	-6.0504	-0.0048	0.0217	-0.0150	0.3922	-2.4712	
38	12.93	-0.04	2.5567	-6.2000	0.0646	0.0819	-0.0110	0.3758	-2.4250	
39	13.28	-0.11	2.5655	-6.2723	-0.2003	0.0664	-0.0090	0.3828	-2.4449	
40	13.65	-0.11	2.6705	-6.3863	-0.0805	0.0877	-0.0180	0.3716	-2.3915	
41	14.02	-0.09	2.7300	-6.4277	0.0174	0.0986	-0.0150	0.3725	-2.3544	
42	14.38	-0.10	2.7921	-6.5026	-0.1267	-0.0556	-0.0270	0.3551	-2.3289	
43	14.73	-0.08	2.8315	-6.5888	-0.1003	0.1834	-0.0210	0.3655	-2.3269	
44	15.07	-0.08	2.9177	-6.6675	-0.0394	0.1091	-0.0400	0.3715	-2.2852	
45	15.43	-0.06	2.9764	-6.6836	-0.0705	0.0597	-0.0280	0.3677	-2.2455	
46	15.77	-0.05	2.9576	-6.4224	-0.0966	0.2222	-0.0440	0.3660	-2.1715	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	6	1.10	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.12	-0.09	3.1010	-6.5951	-0.0169	0.1216	-0.0550	0.3769	-2.1268		
48	16.44	-0.04	3.0608	-6.3868	0.0401	0.0469	-0.1100	0.3784	-2.0867		
49	16.79	-0.07	3.1662	-6.4814	-0.0234	0.0947	-0.1180	0.3695	-2.0471		
50	17.11	-0.01	3.1433	-6.2474	0.0915	-0.0181	-0.0740	0.3698	-1.9939		
51	17.45	-0.02	3.1806	-6.3336	0.0121	0.2840	-0.0750	0.3718	-1.9913		
52	17.78	-0.03	3.3388	-6.4300	-0.1105	0.1557	-0.0760	0.3793	-1.9259		
53	18.10	-0.11	3.3489	-6.5032	-0.2041	0.3187	-0.0590	0.3630	-1.9419		
54	18.45	-0.13	3.4697	-6.6264	-0.0870	0.1138	-0.0720	0.3609	-1.9098		
55	18.77	-0.12	3.5079	-6.6879	-0.0107	-0.0070	-0.0760	0.3482	-1.9065		
56	19.13	-0.07	3.6870	-6.7886	-0.0754	0.3085	-0.0900	0.3555	-1.8412		
57	19.44	-0.10	3.7331	-6.8581	0.0991	0.1292	-0.0950	0.3535	-1.8371		
58	19.78	-0.08	3.8492	-6.9137	-0.0222	0.0391	-0.0730	0.3394	-1.7961		
59	20.13	-0.13	3.9727	-7.0606	-0.1448	0.4597	-0.0900	0.3286	-1.7773		
60	20.46	-0.13	4.0408	-7.1459	-0.1400	0.2460	-0.0940	0.3246	-1.7684		
61	20.81	-0.08	4.1535	-7.1587	0.0330	0.2118	-0.0990	0.3200	-1.7235		
62	21.12	-0.09	4.1872	-7.2718	0.0003	0.4825	-0.1050	0.3139	-1.7367		
63	21.49	-0.07	4.3300	-7.2649	-0.0023	0.3462	-0.1050	0.3205	-1.6778		
64	21.78	-0.10	4.4019	-7.3815	-0.0477	0.1908	-0.0810	0.3040	-1.6769		
65	22.12	-0.11	4.4825	-7.3974	-0.1018	0.1895	-0.0830	0.3147	-1.6503		
66	22.41	-0.08	4.5238	-7.4402	0.0057	0.3220	-0.1000	0.2999	-1.6447		
67	22.73	-0.11	4.5747	-7.4534	0.1255	-0.0047	-0.0790	0.2903	-1.6293		
68	23.06	-0.12	4.7519	-7.4625	0.0245	-0.0129	-0.0830	0.2814	-1.5704		
69	23.37	-0.12	4.8105	-7.4816	0.0561	-0.0705	-0.0700	0.2800	-1.5553		
70	23.69	-0.11	4.8253	-7.5383	0.0082	0.1085	-0.1050	0.2802	-1.5622		
71	24.01	-0.12	4.8827	-7.5696	-0.1084	0.2617	-0.0960	0.2708	-1.5503		
72	24.39	-0.13	5.1821	-7.6019	0.0323	-0.1842	-0.0760	0.2641	-1.4670		
73	24.67	-0.14	5.1651	-7.6091	0.1382	-0.3764	-0.0750	0.2646	-1.4732		
74	25.00	-0.12	5.2917	-7.5944	0.1032	0.0395	-0.0990	0.2462	-1.4351		
75	25.28	-0.13	5.2955	-7.5627	0.1526	-0.2556	-0.0440	0.2315	-1.4281		
76	25.59	-0.12	5.3901	-7.6251	0.0657	-0.2140	-0.0570	0.2344	-1.4147		
77	25.91	-0.12	5.6093	-7.6340	0.1570	-0.4437	-0.0420	0.2337	-1.3610		
78	26.23	-0.12	5.6833	-7.6916	0.0534	-0.2797	-0.0350	0.2422	-1.3534		
79	26.52	-0.13	5.7927	-7.6269	0.0154	-0.1075	-0.0480	0.2301	-1.3166		
80	26.85	-0.12	5.8920	-7.5919	0.1051	-0.2541	-0.0490	0.2203	-1.2835		
81	27.16	-0.12	6.0671	-7.6641	0.1510	-0.3534	-0.0310	0.2278	-1.2632		
82	27.49	-0.11	6.1397	-7.5627	0.0734	-0.0038	-0.0500	0.2346	-1.2318		
83	27.80	-0.10	6.3505	-7.6338	0.1538	-0.2483	-0.0580	0.2186	-1.2021		
84	28.10	-0.10	6.4386	-7.6272	0.2245	-0.2753	-0.0460	0.2174	-1.1846		
85	28.43	-0.14	6.5851	-7.6564	0.0138	-0.3293	-0.0490	0.2139	-1.1627		
86	28.75	-0.11	6.6646	-7.6357	0.0625	-0.2575	-0.0320	0.2016	-1.1463		
87	29.08	-0.12	6.8614	-7.5722	0.1714	-0.6059	-0.0360	0.1814	-1.1036		
88	29.38	-0.08	6.9121	-7.4922	0.1601	-0.1671	-0.0680	0.1827	-1.0839		
89	29.70	-0.07	6.9551	-7.5554	0.4638	-0.7564	-0.0350	0.1648	-1.0863		
90	29.87	-0.16	7.0617	-7.5646	-0.0538	-0.7716	0.0110	0.1609	-1.0712		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx 10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	6	1-10	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CHI1	CHI2	XCPF1	YCPF1	CNF2	CHI2	CHI2	XCPF2	YCPF2
1	-2.74	0.01	0.0538	0.0016	0.0022	0.0297	0.0414	-0.1756	-0.0414	-0.1020	0.2358	0.5809
2	-2.73	0.0	0.0574	0.0016	0.0020	0.0279	0.0353	-0.1804	-0.0416	-0.1031	0.2306	0.5716
3	-2.75	-0.02	0.0668	0.0032	0.0057	0.0479	0.0847	-0.1750	-0.0416	-0.1046	0.2377	0.5978
4	-2.31	-0.06	0.0616	0.0026	0.0036	0.0422	0.0589	-0.1462	-0.0385	-0.0915	0.2633	0.6260
5	-1.68	-0.01	0.0610	0.0039	0.0065	0.0582	0.1034	-0.1112	-0.0331	-0.0741	0.2977	0.6659
6	-1.13	-0.01	0.0513	0.0016	0.0021	0.0312	0.0408	-0.0501	-0.0227	-0.0516	0.4531	1.0298
7	-0.55	-0.02	0.0630	0.0035	0.0074	0.0556	0.1173	-0.0218	-0.0150	-0.0350	0.6881	1.6039
8	-0.03	0.01	0.0641	0.0033	0.0071	0.0515	0.1101	0.0308	-0.0004	-0.0071	-0.0130	-0.2317
9	0.50	-0.01	0.0561	0.0020	0.0051	0.0357	0.0708	0.0614	0.0057	0.0064	0.0928	0.1036
10	0.97	-0.01	0.0559	0.0013	0.0030	0.0233	0.0541	0.0912	0.0132	0.0186	0.1447	0.2038
11	1.49	-0.02	0.0663	0.0033	0.0100	0.0498	0.1507	0.1189	0.0234	0.0341	0.1716	0.2870
12	1.94	-0.01	0.0619	0.0037	0.0086	0.0598	0.1394	0.1684	0.0308	0.0603	0.1829	0.3582
13	2.40	0.0	0.0657	0.0037	0.0082	0.0563	0.1247	0.2058	0.0355	0.0741	0.1725	0.3599
14	2.90	-0.06	-0.0714	-0.0051	0.1060	0.0714	-1.4847	0.2552	0.0408	0.0966	0.1599	0.3787
15	3.39	-0.08	0.0659	0.0038	0.0074	0.0577	0.1117	0.2762	0.0428	0.0990	0.1550	0.3566
16	3.86	-0.05	0.0628	0.0028	0.0068	0.0446	0.1087	0.3401	0.0488	0.1315	0.1435	0.3867
17	4.31	0.0	0.0621	0.0021	0.0071	0.0338	0.1142	0.3876	0.0522	0.1533	0.1347	0.3954
18	4.76	-0.03	0.0637	0.0027	0.0079	0.0393	0.1149	0.4237	0.0543	0.1667	0.1282	0.3981
19	5.21	0.0	0.0554	0.0003	0.0018	0.0054	0.0318	0.4451	0.0547	0.1765	0.1229	0.3966
20	5.66	-0.04	0.0640	0.0005	0.0035	0.0078	0.0551	0.4850	0.0570	0.1956	0.1175	0.4033
21	6.10	-0.03	0.0612	0.0001	0.0035	0.0066	0.0571	0.5171	0.0587	0.2070	0.1135	0.4003
22	6.53	0.0	0.0646	0.0001	0.0056	0.0015	0.0871	0.5511	0.0600	0.2215	0.1089	0.4020
23	6.99	-0.08	0.0719	0.0004	0.0076	0.0056	0.1051	0.5813	0.0615	0.2362	0.1058	0.4063
24	7.42	0.0	0.0672	0.0	0.0041	0.0	0.0609	0.6069	0.0616	0.2423	0.1015	0.3993
25	7.85	-0.08	0.0667	-0.0004	0.0048	-0.0060	0.0723	0.6454	0.0631	0.2606	0.0978	0.4037
26	8.29	0.0	0.0668	-0.0006	0.0042	-0.0090	0.0623	0.6660	0.0632	0.2695	0.0949	0.4047
27	8.73	0.01	0.0784	-0.0011	-0.0000	-0.0188	-0.0007	0.6946	0.0641	0.2802	0.0923	0.4033
28	9.12	-0.05	0.0597	-0.0005	0.0028	-0.0084	0.0468	0.7300	0.0634	0.2953	0.0896	0.4046
29	9.54	-0.04	0.0571	-0.0008	0.0020	-0.0140	0.0355	0.7656	0.0662	0.3096	0.0865	0.4044
30	9.93	-0.04	0.0557	-0.0004	0.0022	-0.0072	0.0726	0.7846	0.0671	0.3173	0.0855	0.4045
31	10.34	-0.12	0.0545	-0.0004	0.0043	-0.0073	0.0782	0.7961	0.0669	0.3242	0.0840	0.4072
32	10.73	-0.06	0.0442	-0.0016	0.0015	-0.0362	0.0346	0.8364	0.0695	0.3431	0.0831	0.4102
33	11.13	-0.05	0.0466	-0.0016	0.0029	-0.0343	0.0628	0.8668	0.0703	0.3556	0.0809	0.4093
34	11.49	-0.05	0.0393	-0.0016	0.0021	-0.0407	0.0533	0.8925	0.0714	0.3651	0.0800	0.4091
35	11.84	-0.05	0.0379	-0.0026	-0.0018	-0.0686	-0.0467	0.9069	0.0717	0.3709	0.0791	0.4090
36	12.22	-0.07	0.0344	-0.0022	-0.0032	-0.0573	-0.0835	0.9340	0.0729	0.3813	0.0781	0.4083
37	12.57	-0.05	0.0329	-0.0024	-0.0003	-0.0729	-0.0103	0.9556	0.0737	0.3926	0.0771	0.4109
38	12.93	-0.04	0.0291	-0.0028	-0.0023	-0.0962	-0.0792	0.9618	0.0754	0.4009	0.0768	0.4084
39	13.28	-0.11	0.0281	-0.0027	-0.0030	-0.0961	-0.1081	0.9942	0.0757	0.4071	0.0761	0.4095
40	13.65	-0.11	0.0161	-0.0040	-0.0047	-0.2484	-0.2941	1.0092	0.0764	0.4163	0.0757	0.4125
41	14.02	-0.09	0.0169	-0.0043	-0.0033	-0.2544	-0.1934	1.0306	0.0777	0.4263	0.0754	0.4137
42	14.38	-0.10	0.0071	-0.0067	-0.0049	-0.9437	-1.3992	1.0389	0.0789	0.4300	0.0759	0.4139
43	14.73	-0.08	0.0089	-0.0060	-0.0093	-0.6742	-1.0488	1.0581	0.0795	0.4380	0.0751	0.4139
44	15.07	-0.08	-0.0043	-0.0091	-0.0137	-2.1163	-3.1937	1.0812	0.0800	0.4492	0.0740	0.4154
45	15.43	-0.06	-0.0050	-0.0085	-0.0148	-1.7000	-2.9532	1.0720	0.0842	0.4484	0.0785	0.4183
46	15.77	-0.05	0.0107	-0.0065	-0.0067	-0.6075	-0.6294	1.0740	0.0843	0.4517	0.0785	0.4208

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI CONF		L	OEL1	OEL2	DEL3	DEL4	TRANSITION			
6			6 1.10 1.7		0.0 B2WOF16	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	LB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	16.12	-0.09	-0.0004	-0.0093	-0.0163	23.2500	40.8332	1.0995	0.0829	0.4620	0.0754	0.4202	
48	16.44	-0.04	0.0095	-0.0094	-0.0155	-0.9895	-1.6352	1.1167	0.0818	0.4680	0.0733	0.4191	
49	16.79	-0.07	0.0001	-0.0121	-0.0180	121.0000	174.6667	1.1310	0.0804	0.4773	0.0711	0.4220	
50	17.11	-0.01	-0.0137	-0.0132	-0.0253	0.9635	1.8442	1.0661	0.0584	0.4421	0.0548	0.4147	
51	17.45	-0.02	-0.0252	-0.0131	-0.0224	0.5198	0.9066	1.0792	0.0581	0.4487	0.0538	0.4158	
52	17.78	-0.03	-0.0091	-0.0126	-0.0280	1.3846	3.0805	1.1005	0.0545	0.4544	0.0495	0.4129	
53	18.10	-0.11	-0.0178	-0.0145	-0.0307	0.8146	1.7265	1.1097	0.0507	0.4603	0.0457	0.4148	
54	18.45	-0.13	-0.0221	-0.0160	-0.0359	0.7240	1.6228	1.1260	0.0489	0.4680	0.0434	0.4149	
55	18.77	-0.12	-0.0296	-0.0162	-0.0370	0.5473	1.2488	1.1354	0.0477	0.4706	0.0420	0.4145	
56	19.13	-0.07	-0.0472	-0.0167	-0.0392	0.3538	0.8311	1.1561	0.0472	0.4786	0.0408	0.4140	
57	19.44	-0.10	-0.0370	-0.0178	-0.0478	0.4811	1.2927	1.1757	0.0436	0.4863	0.0371	0.4136	
58	19.78	-0.08	-0.0397	-0.0171	-0.0518	0.4307	1.3055	1.1873	0.0419	0.4911	0.0353	0.4136	
59	20.13	-0.13	-0.0536	-0.0163	-0.0458	0.3041	0.8537	1.2008	0.0407	0.4960	0.0339	0.4131	
60	20.46	-0.13	-0.0508	-0.0170	-0.0516	0.3346	1.0163	1.2166	0.0398	0.5023	0.0327	0.4129	
61	20.81	-0.08	-0.0454	-0.0157	-0.0472	0.3458	1.0403	1.2310	0.0399	0.5092	0.0324	0.4136	
62	21.12	-0.09	-0.0773	-0.0191	-0.0528	0.2471	0.6825	1.2466	0.0390	0.5171	0.0313	0.4148	
63	21.49	-0.07	-0.0583	-0.0165	-0.0489	0.2830	0.8392	1.2699	0.0385	0.5253	0.0303	0.4137	
64	21.78	-0.10	-0.0132	-0.0110	-0.0350	0.8333	2.6514	1.2725	0.0372	0.5261	0.0292	0.4135	
65	22.12	-0.11	-0.0235	-0.0122	-0.0461	0.5191	1.7077	1.2896	0.0366	0.5322	0.0284	0.4127	
66	22.41	-0.08	-0.0297	-0.0126	-0.0433	0.4242	1.4578	1.3063	0.0356	0.5413	0.0274	0.4144	
67	22.73	-0.11	0.0083	-0.0083	-0.0335	-1.0723	-4.0403	1.3105	0.0348	0.5403	0.0266	0.4123	
68	23.06	-0.12	-0.0493	-0.0154	-0.0533	0.3124	1.0817	1.3310	0.0348	0.5496	0.0261	0.4129	
69	23.37	-0.12	0.0306	-0.0066	-0.0270	-0.2157	-0.8825	1.3395	0.0337	0.5530	0.0252	0.4129	
70	23.69	-0.11	-0.0259	-0.0113	-0.0451	0.4363	1.7425	1.3502	0.0335	0.5588	0.0248	0.4139	
71	24.01	-0.12	-0.0275	-0.0121	-0.0475	0.4400	1.7259	1.3636	0.0326	0.5647	0.0239	0.4141	
72	24.39	-0.13	0.0352	-0.0045	-0.0204	-0.1278	-0.5787	1.3800	0.0318	0.5702	0.0230	0.4132	
73	24.67	-0.14	0.0220	-0.0065	-0.0274	-0.2955	-1.2441	1.3927	0.0316	0.5726	0.0227	0.4111	
74	25.00	-0.12	0.0255	-0.0065	-0.0256	-0.2549	-1.0040	1.4033	0.0310	0.5797	0.0221	0.4131	
75	25.28	-0.13	0.0543	-0.0034	-0.0146	-0.0626	-0.2690	1.4018	0.0309	0.5779	0.0220	0.4123	
76	25.59	-0.12	0.0294	-0.0058	-0.0210	-0.1973	-0.7144	1.4069	0.0306	0.5808	0.0217	0.4128	
77	25.91	-0.12	0.0556	-0.0022	-0.0075	-0.0396	-0.1416	1.4343	0.0294	0.5945	0.0205	0.4145	
78	26.23	-0.12	0.0145	-0.0071	-0.0309	-0.4897	-2.1289	1.4452	0.0293	0.5996	0.0203	0.4149	
79	26.52	-0.13	0.0205	-0.0055	-0.0187	-0.2683	-0.9107	1.4578	0.0289	0.6033	0.0198	0.4138	
80	26.85	-0.12	0.0876	0.0021	0.0101	0.0240	0.1152	1.4564	0.0281	0.6039	0.0193	0.4146	
81	27.16	-0.12	0.1250	0.0058	0.0230	0.0464	0.1836	1.4858	0.0274	0.6171	0.0184	0.4153	
82	27.49	-0.11	0.0381	-0.0023	-0.0085	-0.0604	-0.2232	1.4862	0.0273	0.6143	0.0184	0.4134	
83	27.80	-0.10	0.0776	0.0026	0.0035	0.0335	0.0446	1.5068	0.0265	0.6221	0.0176	0.4129	
84	28.10	-0.10	0.0798	0.0018	0.0015	0.0226	0.0187	1.5016	0.0260	0.6220	0.0173	0.4142	
85	28.43	-0.14	0.1136	0.0083	0.0348	0.0731	0.3059	1.5205	0.0255	0.6271	0.0168	0.4124	
86	28.75	-0.11	0.0590	-0.0011	-0.0084	-0.0186	-0.1431	1.5177	0.0255	0.6282	0.0168	0.4139	
87	29.08	-0.12	0.1159	0.0075	0.0317	0.0647	0.2737	1.5267	0.0242	0.6296	0.0159	0.4124	
88	29.38	-0.08	0.0369	-0.0031	-0.0137	-0.0640	-0.3714	1.5281	0.0240	0.6319	0.0157	0.4135	
89	29.70	-0.07	0.0904	0.0032	0.0227	0.0354	0.2514	1.5249	0.0235	0.6315	0.0154	0.4141	
90	29.87	-0.16	0.1742	0.0114	0.0582	0.0654	0.3344	1.5359	0.0234	0.6343	0.0152	0.4130	

PAGE 3 OF 3
 SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	6	1.10	1.7	0.0	82WDF16	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
1	-2.74	0.01	0.0206	0.0070	0.0160	0.3398	0.7750	-0.3292	-0.0385	-0.0718	0.1170	0.2181
2	-2.73	0.0	0.0157	0.0065	0.0147	0.4140	0.9383	-0.3359	-0.0388	-0.0745	0.1155	0.2219
3	-2.75	-0.02	0.0190	0.0075	0.0174	0.3547	0.9174	-0.3318	-0.0385	-0.0750	0.1160	0.2259
4	-2.31	-0.06	0.0145	0.0065	0.0137	0.4483	0.9470	-0.3026	-0.0354	-0.0614	0.1170	0.2030
5	-1.68	-0.01	0.0239	0.0079	0.0183	0.3305	0.7642	-0.2526	-0.0292	-0.0390	0.1156	0.1543
6	-1.13	-0.01	0.0208	0.0065	0.0154	0.3125	0.7419	-0.2012	-0.0203	-0.0180	0.1009	0.0897
7	-0.55	-0.02	0.0266	0.0074	0.0188	0.2782	0.7054	-0.1683	-0.0120	-0.0032	0.0713	0.0189
8	-0.03	0.01	0.0265	0.0080	0.0181	0.3019	0.6842	-0.1085	0.0009	0.0218	-0.0083	-0.2013
9	0.50	-0.01	0.0254	0.0077	0.0170	0.3031	0.6679	-0.0745	0.0082	0.0380	-0.1101	-0.5097
10	0.77	-0.01	0.0245	0.0069	0.0162	0.2816	0.6597	-0.0412	0.0163	0.0523	-0.3956	-1.2687
11	1.49	-0.02	0.0278	0.0081	0.0181	0.2914	0.6498	-0.0209	0.0221	0.0626	-1.0574	-2.9969
12	1.94	-0.01	0.0360	0.0097	0.0225	0.2694	0.6249	0.0332	0.0324	0.0880	0.9759	2.6495
13	2.40	0.0	0.0262	0.0083	0.0205	0.3168	0.7836	0.0672	0.0372	0.1028	0.5536	1.5296
14	2.90	-0.06	0.0342	0.0106	0.0235	0.3099	0.6987	0.1115	0.0420	0.1229	0.3767	1.1018
15	3.39	-0.08	0.0344	0.0099	0.0241	0.2878	0.6995	0.1429	0.0445	0.1341	0.3114	0.9385
16	3.86	-0.05	0.0262	0.0085	0.0205	0.3244	0.7836	0.1961	0.0492	0.1617	0.2509	0.8248
17	4.31	0.0	0.0344	0.0097	0.0248	0.2820	0.7198	0.2443	0.0517	0.1814	0.2116	0.7425
18	4.76	-0.03	0.0249	0.0084	0.0206	0.3373	0.8272	0.2790	0.0534	0.1980	0.1914	0.7096
19	5.21	0.0	0.0404	0.0105	0.0268	0.2599	0.6024	0.3067	0.0541	0.2091	0.1764	0.6818
20	5.66	-0.04	0.0395	0.0098	0.0256	0.2481	0.6471	0.3523	0.0561	0.2278	0.1592	0.6466
21	6.10	-0.03	0.0346	0.0093	0.0241	0.2688	0.6974	0.3734	0.0569	0.2385	0.1524	0.6388
22	6.53	0.0	0.0354	0.0098	0.0273	0.2768	0.7711	0.4196	0.0585	0.2562	0.1394	0.6103
23	6.99	-0.08	0.0378	0.0107	0.0266	0.2831	0.7036	0.4449	0.0594	0.2659	0.1335	0.5978
24	7.42	0.0	0.0418	0.0100	0.0277	0.2392	0.6634	0.4685	0.0601	0.2801	0.1283	0.5979
25	7.85	-0.08	0.0498	0.0123	0.0313	0.2470	0.6284	0.5027	0.0608	0.2925	0.1209	0.5819
26	8.29	0.0	0.0355	0.0097	0.0273	0.2732	0.7698	0.5305	0.0614	0.3058	0.1157	0.5764
27	8.73	0.01	0.0357	0.0094	0.0260	0.2633	0.7282	0.5609	0.0624	0.3172	0.1112	0.5655
28	9.12	-0.05	0.0377	0.0105	0.0283	0.2785	0.7497	0.5909	0.0627	0.3299	0.1061	0.5583
29	9.54	-0.04	0.0461	0.0119	0.0309	0.2531	0.6694	0.6268	0.0635	0.3470	0.1010	0.5519
30	9.93	-0.04	0.0507	0.0130	0.0333	0.2564	0.6567	0.6486	0.0641	0.3556	0.0988	0.5483
31	10.34	-0.12	0.0462	0.0122	0.0295	0.2641	0.6384	0.6660	0.0652	0.3619	0.0979	0.5434
32	10.73	-0.06	0.0520	0.0142	0.0311	0.2731	0.5986	0.7047	0.0674	0.3803	0.0956	0.5397
33	11.13	-0.05	0.0541	0.0155	0.0329	0.2805	0.6086	0.7343	0.0678	0.3942	0.0923	0.5368
34	11.49	-0.05	0.0488	0.0162	0.0323	0.3320	0.6611	0.7509	0.0683	0.4029	0.0910	0.5366
35	11.84	-0.05	0.0444	0.0147	0.0290	0.3311	0.6530	0.7670	0.0693	0.4094	0.0904	0.5337
36	12.22	-0.07	0.0511	0.0168	0.0333	0.3288	0.6522	0.7906	0.0698	0.4237	0.0876	0.5319
37	12.57	-0.05	0.0452	0.0158	0.0305	0.3496	0.6739	0.8183	0.0707	0.4327	0.0864	0.5287
38	12.93	-0.04	0.0462	0.0164	0.0316	0.3550	0.6839	0.8447	0.0724	0.4450	0.0857	0.5268
39	13.28	-0.11	0.0521	0.0175	0.0342	0.3359	0.6557	0.8608	0.0726	0.4527	0.0843	0.5259
40	13.65	-0.11	0.0521	0.0175	0.0342	0.3359	0.6557	0.8756	0.0740	0.4621	0.0845	0.5277
41	14.02	-0.09	0.0463	0.0160	0.0316	0.3456	0.6831	0.8903	0.0748	0.4693	0.0840	0.5271
42	14.38	-0.10	0.0486	0.0166	0.0330	0.3416	0.6789	0.8963	0.0762	0.4723	0.0850	0.5269
43	14.73	-0.08	0.0409	0.0135	0.0286	0.3301	0.7000	0.9114	0.0778	0.4795	0.0854	0.5261
44	15.07	-0.08	0.0519	0.0179	0.0355	0.3449	0.6839	0.9321	0.0771	0.4899	0.0827	0.5256
45	15.43	-0.06	0.0567	0.0188	0.0366	0.3316	0.6454	0.9395	0.0838	0.4968	0.0890	0.5287
46	15.77	-0.05	0.0452	0.0157	0.0321	0.3473	0.7093	0.9024	0.0856	0.4804	0.0949	0.5324

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	6	1.10	1.7	0.0	B2WOF16	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.12	-0.09	0.0591	0.0191	0.0395	0.3232	0.6682	0.9192	0.0835	0.4924	0.0908	0.5357
48	16.44	-0.04	0.0557	0.0182	0.0368	0.3268	0.6600	0.8487	0.0591	0.4507	0.0696	0.5310
49	16.79	-0.07	0.0518	0.0178	0.0381	0.3436	0.7348	0.8596	0.0574	0.4560	0.0668	0.5305
50	17.11	-0.01	0.0561	0.0193	0.0419	0.3440	0.7468	0.8889	0.0565	0.4682	0.0636	0.5267
51	17.45	-0.02	0.0669	0.0217	0.0445	0.3244	0.6651	0.8995	0.0546	0.4736	0.0607	0.5265
52	17.78	-0.03	0.0560	0.0194	0.0429	0.3464	0.7654	0.9189	0.0526	0.4858	0.0572	0.5287
53	18.10	-0.11	0.0468	0.0165	0.0385	0.3526	0.8225	0.9395	0.0502	0.4912	0.0534	0.5228
54	18.45	-0.13	0.0616	0.0213	0.0458	0.3458	0.7439	0.9474	0.0492	0.4977	0.0519	0.5250
55	18.77	-0.12	0.0558	0.0193	0.0442	0.3459	0.7920	0.9621	0.0467	0.5027	0.0485	0.5225
56	19.13	-0.07	0.0573	0.0192	0.0431	0.3351	0.7521	0.9830	0.0449	0.5126	0.0457	0.5215
57	19.44	-0.10	0.0686	0.0225	0.0504	0.3280	0.7341	0.9931	0.0447	0.5211	0.0450	0.5247
58	19.78	-0.08	0.0676	0.0221	0.0482	0.3269	0.7134	1.0163	0.0431	0.5284	0.0424	0.5200
59	20.13	-0.13	0.0593	0.0177	0.0405	0.2985	0.6823	1.0268	0.0411	0.5334	0.0400	0.5195
60	20.46	-0.13	0.0682	0.0207	0.0464	0.3035	0.6807	1.0432	0.0403	0.5404	0.0386	0.5180
61	20.81	-0.08	0.0683	0.0205	0.0466	0.3001	0.6817	1.0481	0.0400	0.5442	0.0382	0.5193
62	21.12	-0.09	0.0659	0.0198	0.0466	0.3005	0.7065	1.0653	0.0384	0.5512	0.0360	0.5174
63	21.49	-0.07	0.0756	0.0214	0.0485	0.2831	0.6467	1.0859	0.0383	0.5619	0.0353	0.5175
64	21.78	-0.10	0.0646	0.0198	0.0463	0.3065	0.7171	1.0909	0.0380	0.5636	0.0348	0.5166
65	22.12	-0.11	0.0688	0.0193	0.0445	0.2805	0.6530	1.1085	0.0373	0.5734	0.0336	0.5172
66	22.41	-0.08	0.0682	0.0204	0.0475	0.2991	0.6969	1.1159	0.0367	0.5756	0.0329	0.5158
67	22.73	-0.11	0.0716	0.0214	0.0501	0.2989	0.6991	1.1207	0.0363	0.5808	0.0324	0.5183
68	23.06	-0.12	0.0683	0.0200	0.0473	0.2928	0.6919	1.1281	0.0356	0.5831	0.0316	0.5169
69	23.37	-0.12	0.0765	0.0220	0.0508	0.2876	0.6639	1.1473	0.0354	0.5925	0.0309	0.5164
70	23.69	-0.11	0.0672	0.0240	0.0553	0.2752	0.6337	1.1495	0.0348	0.5938	0.0303	0.5166
71	24.01	-0.12	0.0675	0.0192	0.0453	0.2844	0.6710	1.1698	0.0341	0.6015	0.0292	0.5142
72	24.39	-0.13	0.0777	0.0224	0.0519	0.2883	0.6678	1.1760	0.0337	0.6058	0.0287	0.5151
73	24.67	-0.14	0.0813	0.0226	0.0540	0.2780	0.6641	1.1797	0.0335	0.6076	0.0284	0.5150
74	25.00	-0.12	0.0811	0.0230	0.0549	0.2836	0.6772	1.1914	0.0332	0.6100	0.0279	0.5120
75	25.28	-0.13	0.0686	0.0200	0.0465	0.2915	0.6772	1.1942	0.0333	0.6130	0.0279	0.5133
76	25.59	-0.12	0.0712	0.0199	0.0483	0.2795	0.6787	1.1975	0.0328	0.6167	0.0274	0.5150
77	25.91	-0.12	0.0758	0.0213	0.0513	0.2810	0.6762	1.2184	0.0320	0.6269	0.0263	0.5145
78	26.23	-0.12	0.0696	0.0205	0.0497	0.2945	0.7140	1.2195	0.0319	0.6288	0.0262	0.5156
79	26.52	-0.13	0.0770	0.0211	0.0534	0.2740	0.6930	1.2349	0.0313	0.6339	0.0253	0.5133
80	26.85	-0.12	0.0784	0.0211	0.0525	0.2691	0.6699	1.2374	0.0312	0.6351	0.0252	0.5133
81	27.16	-0.12	0.0769	0.0217	0.0534	0.2822	0.6947	1.2620	0.0301	0.6494	0.0239	0.5146
82	27.49	-0.11	0.0700	0.0193	0.0445	0.2757	0.7075	1.2611	0.0297	0.6499	0.0236	0.5154
83	27.80	-0.10	0.0880	0.0225	0.0561	0.2557	0.6378	1.2735	0.0292	0.6547	0.0229	0.5141
84	28.10	-0.10	0.0804	0.0215	0.0554	0.2674	0.6889	1.2718	0.0288	0.6570	0.0226	0.5166
85	28.43	-0.14	0.0803	0.0216	0.0561	0.2690	0.6981	1.2833	0.0285	0.6610	0.0222	0.5151
86	28.75	-0.11	0.0701	0.0191	0.0487	0.2725	0.6941	1.2832	0.0283	0.6604	0.0221	0.5146
87	29.08	-0.12	0.0948	0.0241	0.0612	0.2542	0.6455	1.2780	0.0281	0.6586	0.0220	0.5154
88	29.38	-0.08	0.0856	0.0217	0.0561	0.2535	0.6556	1.2809	0.0280	0.6592	0.0219	0.5147
89	29.70	-0.07	0.0856	0.0220	0.0570	0.2570	0.6662	1.2853	0.0270	0.6632	0.0210	0.5160
90	29.87	-0.16	0.0606	0.0216	0.0565	0.2680	0.7005	1.2951	0.0271	0.6685	0.0209	0.5162

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH4	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	7	0.85	1.7	0.0	B2WOF13	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.77	0.03	-0.2873	0.8651	0.0704	-0.0026	0.0030	0.1606	-3.0116	
2	-2.58	0.02	-0.2650	0.8319	0.0167	-0.0254	0.0020	0.1656	-3.1396	
3	-1.99	0.01	-0.1715	0.5910	-0.0265	-0.0389	0.0	0.1664	-3.4466	
4	-1.37	0.04	-0.0832	0.3324	0.1306	0.1241	0.0050	0.1683	-3.4962	
5	-0.83	0.02	-0.0221	0.1329	0.0605	-0.0437	0.0050	0.1702	-6.0154	
6	-0.28	0.03	0.0698	-0.0577	0.0194	0.0698	0.0020	0.1735	-0.8269	
7	0.23	0.02	0.1629	-0.2620	0.0646	-0.0114	0.0	0.1707	-1.6087	
8	0.76	0.03	0.2219	-0.4156	0.0809	0.0547	0.0010	0.1707	-1.8732	
9	1.24	0.02	0.3143	-0.6559	0.0246	-0.0354	0.0020	0.1742	-2.0872	
10	1.73	0.01	0.3920	-0.8738	-0.0665	-0.0009	0.0040	0.1701	-2.2289	
11	2.22	0.01	0.4673	-1.0812	0.0858	0.0159	0.0010	0.1726	-2.3136	
12	2.68	0.0	0.5419	-1.2786	0.0649	-0.0758	-0.0010	0.1705	-2.3594	
13	3.20	0.02	0.6326	-1.5286	0.0933	0.0704	0.0040	0.1691	-2.4163	
14	3.65	0.01	0.7334	-1.8207	0.0927	0.0832	0.0050	0.1668	-2.4825	
15	4.12	0.0	0.8256	-2.0497	-0.0233	0.1656	0.0090	0.1637	-2.5433	
16	4.55	0.0	0.8903	-2.3053	0.0115	0.0469	0.0030	0.1665	-2.5894	
17	5.03	-0.01	1.0021	-2.6067	-0.0486	0.0620	0.0010	0.1639	-2.6014	
18	5.45	0.0	1.1011	-2.8943	-0.0120	0.0458	0.0030	0.1684	-2.6287	
19	5.92	-0.01	1.1813	-3.1577	-0.0247	0.0136	0.0060	0.1672	-2.6730	
20	6.35	0.0	1.2609	-3.4003	0.0307	0.0420	0.0	0.1668	-2.6796	
21	6.81	-0.01	1.3473	-3.5930	-0.0272	0.0194	0.0020	0.1714	-2.6668	
22	7.25	0.0	1.4077	-3.7296	0.0284	0.0762	0.0040	0.1713	-2.6494	
23	7.69	0.0	1.4752	-3.9060	0.0162	0.0403	0.0020	0.1756	-2.6478	
24	8.12	0.0	1.5535	-4.0476	0.0203	0.0426	-0.0010	0.1756	-2.6055	
25	8.56	0.0	1.6204	-4.2173	0.0161	0.0535	-0.0020	0.1766	-2.6026	
26	8.96	0.0	1.6826	-4.3194	0.0183	0.0244	-0.0070	0.1805	-2.5671	
27	9.34	-0.01	1.7376	-4.4513	-0.0417	0.0264	-0.0050	0.1773	-2.5618	
28	9.78	0.01	1.8044	-4.5878	0.0823	0.1088	-0.0050	0.1732	-2.5356	
29	10.15	-0.01	1.8669	-4.6913	0.0431	0.0956	-0.0110	0.1764	-2.5130	
30	10.58	-0.01	1.9254	-4.8513	0.0720	-0.0018	-0.0130	0.1773	-2.5196	
31	10.96	-0.02	1.9829	-4.9618	0.0617	0.0366	-0.0090	0.1756	-2.5023	
32	11.36	-0.03	2.0611	-5.0563	0.0164	0.0390	-0.0150	0.1787	-2.4532	
33	11.71	-0.02	2.1074	-5.1481	0.0662	0.0183	-0.0180	0.1812	-2.4428	
34	12.09	-0.03	2.1840	-5.2863	0.0350	-0.0130	-0.0100	0.1800	-2.4205	
35	12.43	-0.02	2.2473	-5.3949	0.0703	0.1266	-0.0120	0.1827	-2.4006	
36	12.78	-0.03	2.2947	-5.4693	0.0704	-0.0016	-0.0140	0.1831	-2.3834	
37	13.15	-0.04	2.3586	-5.5887	-0.0518	0.0385	-0.0170	0.1814	-2.3695	
38	13.44	-0.03	2.3896	-5.6101	0.0312	-0.0037	-0.0210	0.1791	-2.3477	
39	13.87	-0.05	2.4022	-5.5468	0.0379	-0.0501	-0.0350	0.1862	-2.3091	
40	14.22	-0.05	2.4247	-5.3793	0.0281	-0.0713	-0.0410	0.1924	-2.2186	
41	14.60	-0.05	2.4533	-5.3263	0.0075	-0.0465	-0.0340	0.1970	-2.1711	
42	14.93	-0.05	2.5057	-5.3237	0.0203	0.0306	-0.0340	0.2012	-2.1247	
43	15.29	-0.05	2.5094	-5.3439	0.0203	-0.0054	-0.0330	0.2043	-2.1296	
44	15.62	-0.05	2.5714	-5.3407	-0.0002	-0.0897	-0.0340	0.2041	-2.0770	
45	15.97	-0.05	2.6065	-5.2578	0.0420	-0.1088	-0.0500	0.2066	-2.0172	
46	16.28	-0.04	2.6248	-5.2524	0.0545	0.0287	-0.0490	0.2056	-2.0011	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	7	0.85	1.7	0.0	B2WDF13	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.62	-0.05	2.6756	-5.2297	0.0175	-0.1195	-0.0550	0.2005	-1.9546		
48	16.96	-0.06	2.7168	-5.1684	0.0178	-0.1409	-0.0530	0.2048	-1.9024		
49	17.27	-0.06	2.7082	-5.0964	0.0681	-0.1823	-0.0630	0.2120	-1.8818		
50	17.62	-0.06	2.6711	-4.6893	0.1340	-0.4435	-0.1010	0.2182	-1.7556		
51	17.95	-0.07	2.7031	-4.6483	0.0968	-0.5354	-0.0890	0.2166	-1.7196		
52	18.49	-0.06	2.6909	-4.4442	0.0681	-0.2753	-0.0710	0.2269	-1.6516		
53	18.62	-0.06	2.7245	-4.3833	0.0621	-0.2399	-0.0610	0.2186	-1.6088		
54	18.97	-0.06	2.8591	-4.6987	0.0679	-0.3580	-0.0560	0.1962	-1.6434		
55	19.28	-0.07	2.8541	-4.5757	-0.0068	-0.1775	-0.0520	0.2060	-1.6046		
56	19.60	-0.07	2.9757	-4.8719	0.0031	-0.2353	-0.0390	0.1905	-1.6372		
57	19.92	-0.08	3.0285	-5.0038	-0.0803	-0.1226	-0.0390	0.1863	-1.6522		
58	20.25	-0.07	3.0904	-5.0015	0.0098	-0.0377	-0.0450	0.1791	-1.6184		
59	20.59	-0.07	3.1585	-5.1018	0.0162	-0.0635	-0.0470	0.1751	-1.6153		
60	20.91	-0.08	3.2094	-5.1420	-0.0756	-0.1335	-0.0590	0.1703	-1.6022		
61	21.24	-0.07	3.3014	-5.4388	-0.0278	-0.1441	-0.0570	0.1576	-1.6474		
62	21.55	-0.07	3.3657	-5.4808	-0.0922	-0.0199	-0.0540	0.1491	-1.6285		
63	21.87	-0.06	3.4005	-5.5605	0.1454	-0.2235	-0.0650	0.1463	-1.6352		
64	22.16	-0.07	3.4700	-5.6300	0.0393	-0.1300	-0.0740	0.1394	-1.6224		
65	22.48	-0.07	3.5760	-5.7863	0.0162	-0.1007	-0.0530	0.1332	-1.6181		
66	22.78	-0.08	3.5874	-5.9723	-0.0630	-0.0368	-0.0730	0.1271	-1.6648		
67	23.09	-0.07	3.6865	-6.0940	0.1371	-0.3169	-0.0310	0.1150	-1.6531		
68	23.40	-0.08	3.6579	-6.0610	0.0827	-0.2577	-0.0680	0.1010	-1.6569		
69	23.71	-0.07	3.6068	-6.2264	0.1142	-0.1889	-0.0660	0.0912	-1.6356		
70	24.04	-0.08	3.7862	-6.2406	-0.0692	-0.0439	-0.0660	0.0680	-1.6482		
71	24.33	-0.08	3.8099	-6.2997	0.0224	-0.2203	-0.0680	0.0631	-1.6535		
72	24.65	-0.07	3.8836	-6.3649	0.0853	-0.0594	-0.0670	0.0575	-1.6389		
73	24.94	-0.07	3.9231	-6.3402	0.0960	-0.2034	-0.0710	0.0447	-1.6161		
74	25.23	-0.07	3.9253	-6.1983	0.0923	-0.0282	-0.0740	0.0408	-1.5791		
75	25.51	-0.09	3.9795	-6.3482	0.1189	-0.3334	-0.0530	0.0447	-1.5952		
76	25.82	-0.08	4.0883	-6.3455	0.1633	-0.3256	-0.0550	0.0385	-1.5521		
77	26.10	-0.09	4.1428	-6.4548	0.0024	-0.1853	-0.0570	0.0370	-1.5581		
78	26.41	-0.09	4.2176	-6.4296	0.0446	-0.2024	-0.0560	0.0273	-1.5245		
79	26.71	-0.09	4.2504	-6.2886	0.0636	-0.2750	-0.0370	0.0187	-1.4795		
80	27.00	-0.08	4.3207	-6.3520	0.1556	-0.3868	-0.0260	0.0156	-1.4701		
81	27.32	-0.07	4.3636	-6.3460	0.1707	-0.1800	-0.0450	0.0122	-1.4543		
82	27.60	-0.09	4.4705	-6.4767	0.0788	-0.2123	-0.0430	0.0027	-1.4488		
83	27.92	-0.09	4.5296	-6.4574	-0.0062	-0.1503	-0.0620	-0.0084	-1.4256		
84	28.21	-0.09	4.5903	-6.4924	0.0022	-0.1291	-0.0580	-0.0184	-1.4144		
85	28.52	-0.09	4.6529	-6.4920	0.1707	-0.4809	-0.0050	-0.0218	-1.3953		
86	28.82	-0.08	4.7232	-6.4695	-0.0176	0.2256	-0.0800	-0.0337	-1.3697		
87	29.16	-0.08	4.7926	-6.3516	0.1430	-0.1982	-0.0150	-0.0438	-1.3253		
88	29.40	-0.06	4.7581	-6.4763	0.3638	-0.3523	-0.0200	-0.0541	-1.3611		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 7 0.85 1.7 0.0 B2W0F13 0.0 0 0 0 0 Fixed

PGANT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	-2.17	0.03	-0.0192	-0.0020	-0.0101	0.1016	0.5259	-0.1418	-0.0312	-0.0751	0.2198	0.5294
2	-2.58	0.02	-0.0265	-0.0027	-0.0106	0.1020	0.4011	-0.1347	-0.0291	-0.0699	0.2158	0.5189
3	-1.99	0.01	-0.0262	-0.0023	-0.0093	0.0888	0.3361	-0.0967	-0.0222	-0.0537	0.2300	0.5558
4	-1.37	0.04	-0.0229	-0.0020	-0.0071	0.0885	0.3114	-0.0606	-0.0148	-0.0370	0.2440	0.6104
5	-0.83	0.02	-0.0173	-0.0013	-0.0055	0.0737	0.3390	-0.0293	-0.0086	-0.0217	0.2920	0.7394
6	-0.28	0.03	-0.0154	-0.0012	-0.0064	0.0780	0.4176	-0.0011	-0.0025	-0.0081	2.2514	7.3332
7	0.23	0.02	-0.0170	-0.0009	-0.0046	0.0530	0.2803	0.0389	0.0047	0.0065	0.1196	0.1661
8	0.76	0.03	-0.0100	-0.0005	-0.0045	0.0525	0.4532	0.0656	0.0107	0.0206	0.1624	0.3164
9	1.24	0.02	-0.0097	-0.0002	-0.0040	0.0232	0.4157	0.0498	0.0165	0.0330	0.1656	0.3312
10	1.73	0.01	-0.0176	-0.0016	-0.0056	0.0895	0.3275	0.1365	0.0226	0.0477	0.1656	0.3493
11	2.22	0.01	-0.0173	-0.0012	-0.0048	0.0694	0.2754	0.1667	0.0288	0.0622	0.1730	0.3734
12	2.68	0.0	-0.0158	-0.0014	-0.0052	0.0855	0.3269	0.1938	0.0345	0.0756	0.1778	0.3900
13	3.20	0.02	-0.0162	-0.0017	-0.0042	0.1019	0.2591	0.2225	0.0400	0.0892	0.1799	0.4007
14	3.65	0.01	-0.0014	-0.0003	-0.0001	0.2144	0.0954	0.2624	0.0470	0.1058	0.1791	0.4030
15	4.12	0.0	-0.0127	-0.0014	-0.0024	0.1064	0.1915	0.3048	0.0537	0.1254	0.1762	0.4114
16	4.55	0.0	-0.0184	-0.0022	-0.0036	0.1183	0.1973	0.3384	0.0587	0.1419	0.1735	0.4193
17	5.03	-0.01	-0.0202	-0.0023	-0.0045	0.1152	0.2243	0.3779	0.0618	0.1559	0.1635	0.4126
18	5.45	0.0	-0.0187	-0.0026	-0.0055	0.1405	0.2358	0.4074	0.0649	0.1735	0.1592	0.4258
19	5.92	-0.01	-0.0192	-0.0028	-0.0026	0.1446	0.1353	0.4405	0.0667	0.1863	0.1514	0.4229
20	6.35	0.0	-0.0245	-0.0033	-0.0048	0.1348	0.1944	0.4720	0.0685	0.1980	0.1451	0.4195
21	6.81	-0.01	-0.0178	-0.0028	-0.0008	0.1560	0.0467	0.5093	0.0706	0.2117	0.1386	0.4157
22	7.25	0.0	-0.0131	-0.0029	0.0004	0.2234	-0.0332	0.5233	0.0709	0.2181	0.1355	0.4168
23	7.69	0.0	-0.0103	-0.0035	0.0004	0.3352	-0.0357	0.5491	0.0710	0.2271	0.1292	0.4136
24	8.12	0.0	-0.0150	-0.0033	-0.0011	0.2201	0.0732	0.5683	0.0701	0.2335	0.1233	0.4109
25	8.56	0.0	-0.0193	-0.0042	-0.0004	0.2178	0.0223	0.5842	0.0695	0.2395	0.1190	0.4099
26	8.96	0.0	-0.0190	-0.0040	-0.0016	0.2093	0.0858	0.5985	0.0683	0.2453	0.1140	0.4098
27	9.34	-0.01	-0.0262	-0.0046	-0.0024	0.1747	0.0428	0.6163	0.0674	0.2484	0.1094	0.4030
28	9.78	0.01	-0.0120	-0.0048	0.0017	0.4002	-0.1418	0.6291	0.0662	0.2552	0.1053	0.4056
29	10.15	-0.01	-0.0274	-0.0059	-0.0033	0.2136	0.1215	0.6534	0.0641	0.2610	0.0981	0.3995
30	10.58	-0.01	-0.0224	-0.0058	-0.0028	0.2580	0.1234	0.6631	0.0622	0.2676	0.0938	0.4035
31	10.96	-0.02	-0.0267	-0.0065	-0.0014	0.2445	0.0523	0.6801	0.0636	0.2731	0.0894	0.4016
32	11.36	-0.03	-0.0219	-0.0065	0.0001	0.2981	-0.0047	0.6989	0.0589	0.2774	0.0843	0.3969
33	11.71	-0.02	-0.0305	-0.0071	-0.0026	0.2313	0.0840	0.7117	0.0584	0.2820	0.0821	0.3962
34	12.09	-0.03	-0.0199	-0.0075	0.0020	0.3771	-0.0189	0.7229	0.0552	0.2873	0.0763	0.3974
35	12.43	-0.02	-0.0316	-0.0091	0.0032	0.2874	-0.1003	0.7338	0.0549	0.2929	0.0748	0.3992
36	12.78	-0.03	-0.0239	-0.0094	0.0049	0.3925	-0.2065	0.7449	0.0531	0.2983	0.0713	0.4005
37	13.15	-0.04	-0.0266	-0.0093	0.0012	0.3498	-0.0465	0.7536	0.0517	0.2984	0.0686	0.3960
38	13.49	-0.03	-0.0316	-0.0109	0.0009	0.3444	-0.0275	0.7554	0.0514	0.2982	0.0681	0.3948
39	13.87	-0.05	-0.0242	-0.0099	0.0036	0.4093	-0.1585	0.7638	0.0487	0.3002	0.0637	0.3931
40	14.22	-0.05	-0.0108	-0.0094	0.0063	0.8686	-0.5835	0.7565	0.0459	0.2977	0.0606	0.3935
41	14.60	-0.05	-0.0280	-0.0108	-0.0007	0.3860	0.0261	0.7342	0.0402	0.2869	0.0548	0.3907
42	14.93	-0.05	-0.0339	-0.0128	-0.0030	0.3763	-0.0886	0.7317	0.0385	0.2874	0.0526	0.3928
43	15.29	-0.05	-0.0309	-0.0134	0.0010	0.4323	-0.0325	0.7333	0.0379	0.2884	0.0517	0.3933
44	15.62	-0.05	-0.0255	-0.0130	-0.0012	0.5041	-0.0472	0.7335	0.0374	0.2879	0.0510	0.3926
45	15.97	-0.05	-0.0301	-0.0119	-0.0067	0.3539	-0.2236	0.7346	0.0369	0.2909	0.0502	0.3960
46	16.28	-0.04	-0.0518	-0.0137	-0.0092	0.2637	-0.1768	0.7319	0.0370	0.2872	0.0506	0.3924

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	Rx10-6	PHI	CNCF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			7	0.85 1.7	0.0	B2WOF13	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.62	-0.05	-0.0375	-0.0140	-0.0056	0.3742	0.1492	0.7302	0.0369	0.2874	0.0506	0.3936
48	16.96	-0.06	-0.0462	-0.0132	-0.0090	0.2859	0.1947	0.7170	0.0372	0.2844	0.0518	0.3967
49	17.27	-0.06	-0.0361	-0.0143	-0.0060	0.3971	0.1670	0.7177	0.0374	0.2831	0.0521	0.3944
50	17.62	-0.06	-0.0014	-0.0169	0.0132	12.0611	-9.4525	0.7333	0.0362	0.2915	0.0494	0.3975
51	17.95	-0.07	-0.0342	-0.0127	-0.0217	0.3708	0.6344	0.6858	0.0378	0.2691	0.0552	0.3925
52	18.29	-0.06	-0.0409	-0.0142	-0.0207	0.3468	0.5068	0.6632	0.0378	0.2614	0.0571	0.3942
53	18.62	-0.06	-0.0109	-0.0164	0.0020	1.5078	-0.1805	0.6739	0.0372	0.2683	0.0553	0.3981
54	18.97	-0.06	0.0112	-0.0197	0.0202	-1.7623	1.8064	0.7022	0.0360	0.2820	0.0513	0.4016
55	19.28	-0.07	0.0117	-0.0185	0.0048	1.5779	-0.4104	0.6803	0.0369	0.2724	0.0542	0.4004
56	19.60	-0.07	0.0078	-0.0209	0.0239	-2.6747	3.0640	0.7118	0.0356	0.2857	0.0503	0.4014
57	19.92	-0.08	0.0118	-0.0218	0.0256	-1.8444	2.1722	0.7320	0.0354	0.2907	0.0483	0.3972
58	20.25	-0.07	0.0042	-0.0263	0.0336	-6.2539	7.9399	0.7429	0.0348	0.2971	0.0468	0.3999
59	20.59	-0.07	-0.0084	-0.0222	0.0121	2.6445	-1.4406	0.7461	0.0345	0.2982	0.0463	0.3997
60	20.91	-0.08	-0.0220	-0.0234	0.0063	1.0609	-0.2850	0.7441	0.0347	0.2994	0.0466	0.4023
61	21.24	-0.07	-0.0263	-0.0217	0.0003	0.8247	-0.0128	0.7709	0.0336	0.3055	0.0435	0.3963
62	21.55	-0.07	-0.0076	-0.0264	0.0214	3.4758	-2.8115	0.8072	0.0321	0.3204	0.0397	0.3969
63	21.87	-0.06	-0.0472	-0.0158	-0.0247	0.3355	0.5239	0.7799	0.0333	0.3097	0.0427	0.3971
64	22.16	-0.07	-0.0322	-0.0215	-0.0037	0.6666	0.1158	0.8150	0.0315	0.3246	0.0387	0.3983
65	22.48	-0.07	-0.0215	-0.0245	-0.0013	0.9529	0.0568	0.8138	0.0315	0.3223	0.0387	0.3960
66	22.78	-0.08	-0.0423	-0.0207	-0.0104	0.4857	0.2457	0.8360	0.0303	0.3331	0.0363	0.3984
67	23.09	-0.07	-0.0507	-0.0131	-0.0275	0.2590	0.5423	0.8247	0.0303	0.3299	0.0365	0.3976
68	23.40	-0.08	-0.0556	-0.0134	-0.0307	0.2416	0.5526	0.8252	0.0306	0.3264	0.0371	0.3955
69	23.71	-0.07	-0.0107	-0.0090	-0.0182	0.8416	1.6977	0.8549	0.0291	0.3341	0.0341	0.3908
70	24.04	-0.08	-0.0392	-0.0286	0.0051	0.7294	-0.1311	0.8767	0.0278	0.3467	0.0317	0.3954
71	24.33	-0.08	-0.0214	-0.0107	-0.0139	0.5015	0.6510	0.8703	0.0277	0.3439	0.0318	0.3952
72	24.65	-0.07	-0.0337	-0.0136	-0.0200	0.4031	0.5943	0.8775	0.0277	0.3454	0.0316	0.3936
73	24.94	-0.07	-0.0403	-0.0151	-0.0210	0.3743	0.5218	0.8873	0.0276	0.3483	0.0311	0.3925
74	25.23	-0.07	-0.0469	-0.0194	-0.0181	0.4144	0.3865	0.8962	0.0264	0.3561	0.0295	0.3973
75	25.51	-0.09	-0.0024	-0.0033	-0.0236	1.3759	9.8332	0.8903	0.0267	0.3509	0.0299	0.3941
76	25.82	-0.08	-0.0178	-0.0083	-0.0224	0.4638	1.2602	0.8964	0.0264	0.3551	0.0295	0.3962
77	26.10	-0.09	-0.0160	-0.0077	-0.0189	0.4831	1.1832	0.9064	0.0263	0.3573	0.0290	0.3941
78	26.41	-0.09	-0.0164	-0.0110	-0.0154	0.6681	0.9369	0.9192	0.0254	0.3627	0.0276	0.3946
79	26.71	-0.09	0.0238	-0.0062	-0.0021	-0.2617	-0.0070	0.9110	0.0254	0.3603	0.0279	0.3955
80	27.00	-0.08	0.0024	-0.0093	-0.0044	-3.8774	-1.8335	0.9291	0.0247	0.3654	0.0266	0.3933
81	27.32	-0.07	-0.0349	-0.0211	-0.0195	0.6642	0.5710	0.9433	0.0237	0.3732	0.0252	0.3956
82	27.60	-0.09	0.0563	-0.0010	0.0182	-0.0173	0.3226	0.9306	0.0239	0.3704	0.0254	0.3946
83	27.92	-0.09	-0.0112	-0.0101	-0.0102	0.9046	0.9136	0.9548	0.0230	0.3766	0.0241	0.3944
84	28.21	-0.09	-0.0253	-0.0157	-0.0112	0.6200	0.4439	0.9645	0.0222	0.3805	0.0230	0.3945
85	28.52	-0.09	0.0656	-0.0004	0.0265	-0.0057	0.4033	0.9487	0.0231	0.3747	0.0243	0.3949
86	28.82	-0.08	0.0103	-0.0061	-0.0005	-0.5902	-0.0454	0.9641	0.0221	0.3794	0.0229	0.3935
87	29.16	-0.08	0.0628	-0.0009	0.0200	-0.0143	0.3189	0.9646	0.0216	0.3805	0.0223	0.3944
88	29.40	-0.06	0.0915	0.0014	0.0329	0.0156	0.3594	0.9719	0.0213	0.3842	0.0219	0.3953

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	7.085	1.7	0.0	B2WOF13	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.77	0.03	-0.0031	0.0014	0.0070	-0.4600	-2.2474	-0.1105	-0.0317	-0.0761	0.2869	0.6892
2	-2.58	0.02	0.0015	0.0021	0.0094	1.4009	-6.2665	-0.0966	-0.0293	-0.0705	0.3033	0.7301
3	-1.99	0.01	0.0015	0.0023	0.0085	1.5009	-5.6665	-0.0531	-0.0225	-0.0558	0.4086	1.0120
4	-1.37	0.04	-0.0082	0.0009	0.0075	-0.1098	-0.9107	-0.0245	-0.0160	-0.0376	0.6524	1.5332
5	-0.83	0.02	0.0016	0.0023	0.0085	1.4071	-5.3332	0.0056	-0.0103	-0.0232	-1.8360	-4.1489
6	-0.28	0.03	0.0029	0.0026	0.0111	0.8799	3.8160	0.0415	-0.0038	-0.0092	-0.0922	-0.2210
7	0.23	0.02	0.0013	0.0024	0.0097	1.8473	7.4871	0.0703	0.0022	0.0036	0.0310	0.0516
8	0.76	0.03	-0.0017	0.0018	0.0085	-1.0595	-5.0197	0.1066	0.0081	0.0158	0.0761	0.1482
9	1.24	0.02	0.0060	0.0032	0.0119	0.5253	1.9632	0.1375	0.0141	0.0303	0.1027	0.2204
10	1.73	0.01	0.0066	0.0024	0.0097	0.3639	1.4696	0.1759	0.0212	0.0475	0.1208	0.2701
11	2.22	0.01	0.0067	0.0023	0.0091	0.3360	1.3631	0.2060	0.0263	0.0606	0.1276	0.2944
12	2.68	0.0	0.0125	0.0036	0.0142	0.2882	1.1332	0.2439	0.0324	0.0744	0.1330	0.3049
13	3.20	0.02	0.0043	0.0032	0.0133	0.3389	1.4300	0.2771	0.0394	0.0915	0.1423	0.3303
14	3.65	0.01	0.0145	0.0033	0.0130	0.2277	0.8987	0.3141	0.0445	0.1069	0.1418	0.3402
15	4.12	0.0	0.0130	0.0030	0.0119	0.2309	0.9178	0.3645	0.0517	0.1264	0.1417	0.3667
16	4.55	0.0	0.0130	0.0029	0.0120	0.2251	0.9255	0.3955	0.0557	0.1405	0.1409	0.3552
17	5.03	-0.01	0.0128	0.0030	0.0133	0.2345	1.0363	0.4347	0.0589	0.1579	0.1356	0.3631
18	5.45	0.0	0.0141	0.0036	0.0148	0.2555	1.0495	0.4764	0.0618	0.1745	0.1297	0.3664
19	5.92	-0.01	0.0189	0.0043	0.0164	0.2263	0.8676	0.5115	0.0643	0.1867	0.1257	0.3690
20	6.35	0.0	0.0191	0.0038	0.0164	0.2004	0.8568	0.5386	0.0657	0.2005	0.1220	0.3722
21	6.81	-0.01	0.0236	0.0049	0.0189	0.2067	0.7993	0.5685	0.0671	0.2133	0.1161	0.3753
22	7.25	0.0	0.0193	0.0036	0.0152	0.1866	0.7892	0.5841	0.0669	0.2164	0.1145	0.3706
23	7.69	0.0	0.0273	0.0046	0.0185	0.1677	0.6775	0.6050	0.0666	0.2257	0.1101	0.3731
24	8.12	0.0	0.0290	0.0049	0.0174	0.1692	0.5987	0.6282	0.0650	0.2304	0.1034	0.3667
25	8.56	0.0	0.0190	0.0042	0.0164	0.2212	0.8048	0.6442	0.0630	0.2361	0.0978	0.3665
26	8.96	0.0	0.0308	0.0047	0.0169	0.1535	0.5475	0.6550	0.0613	0.2398	0.0937	0.3661
27	9.34	-0.01	0.0240	0.0042	0.0177	0.1751	0.7374	0.6708	0.0598	0.2468	0.0891	0.3680
28	9.78	0.01	0.0304	0.0050	0.0199	0.1654	0.6556	0.6878	0.0587	0.2523	0.0854	0.3668
29	10.15	-0.01	0.0339	0.0051	0.0189	0.1505	0.5574	0.7003	0.0575	0.2586	0.0821	0.3692
30	10.58	-0.01	0.0334	0.0059	0.0208	0.1775	0.6236	0.7180	0.0546	0.2635	0.0763	0.3669
31	10.96	-0.02	0.0289	0.0047	0.0192	0.1636	0.6654	0.7278	0.0530	0.2685	0.0728	0.3690
32	11.36	-0.03	0.0283	0.0056	0.0214	0.1562	0.7572	0.7427	0.0511	0.2720	0.0687	0.3662
33	11.71	-0.02	0.0333	0.0059	0.0230	0.1758	0.6906	0.7506	0.0502	0.2778	0.0668	0.3701
34	12.09	-0.03	0.0252	0.0050	0.0206	0.1995	0.8173	0.7654	0.0490	0.2811	0.0640	0.3672
35	12.43	-0.02	0.0332	0.0058	0.0242	0.1741	0.7278	0.7776	0.0491	0.2883	0.0632	0.3708
36	12.78	-0.03	0.0282	0.0056	0.0224	0.1569	0.7942	0.7938	0.0476	0.2897	0.0624	0.3650
37	13.15	-0.04	0.0346	0.0063	0.0246	0.1822	0.7118	0.7950	0.0490	0.2922	0.0616	0.3676
38	13.49	-0.03	0.0331	0.0059	0.0242	0.1768	0.7320	0.8036	0.0487	0.2936	0.0606	0.3653
39	13.87	-0.05	0.0381	0.0061	0.0254	0.1595	0.6665	0.7623	0.0424	0.2745	0.0557	0.3601
40	14.22	-0.05	0.0347	0.0061	0.0247	0.1752	0.7107	0.7500	0.0395	0.2688	0.0527	0.3584
41	14.60	-0.05	0.0357	0.0066	0.0255	0.1664	0.6380	0.7512	0.0379	0.2689	0.0505	0.3580
42	14.93	-0.05	0.0333	0.0056	0.0243	0.1668	0.7296	0.7529	0.0369	0.2747	0.0491	0.3648
43	15.29	-0.05	0.0395	0.0065	0.0281	0.1634	0.7104	0.7523	0.0361	0.2717	0.0480	0.3611
44	15.62	-0.05	0.0398	0.0062	0.0268	0.1565	0.6724	0.7445	0.0351	0.2708	0.0472	0.3637
45	15.97	-0.05	0.0412	0.0068	0.0278	0.1639	0.6754	0.7391	0.0349	0.2693	0.0472	0.3644
46	16.28	-0.04	0.0397	0.0063	0.0268	0.1588	0.6758	0.7544	0.0342	0.2717	0.0454	0.3601

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		7		0.85 1.7		0.0 B2WUFL3		0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCFF3	YCFF3	CNF4	CH4	CH4	XCFF4	YCFF4	
47	16.62	-0.05	0.0392	0.0068	0.0294	0.1723	0.7490	0.7385	0.0342	0.2702	0.0463	0.3659	
48	16.90	-0.06	0.0393	0.0069	0.0284	0.1757	0.7225	0.7266	0.0345	0.2638	0.0475	0.3631	
49	17.27	-0.06	0.0394	0.0066	0.0284	0.1676	0.7215	0.7270	0.0345	0.2629	0.0475	0.3616	
50	17.62	-0.06	0.0339	0.0079	0.0346	0.1462	0.6412	0.6274	0.0369	0.2243	0.0588	0.3575	
51	17.95	-0.07	0.0471	0.0080	0.0333	0.1705	0.7069	0.6544	0.0363	0.2351	0.0554	0.3592	
52	18.29	-0.06	0.0538	0.0084	0.0347	0.1562	0.6455	0.6538	0.0357	0.2364	0.0547	0.3646	
53	18.62	-0.06	0.0396	0.0065	0.0284	0.1649	0.7171	0.6494	0.0366	0.2327	0.0563	0.3583	
54	18.97	-0.06	0.0443	0.0069	0.0318	0.1559	0.7170	0.6544	0.0364	0.2363	0.0557	0.3610	
55	19.28	-0.07	0.0445	0.0071	0.0305	0.1585	0.6950	0.6665	0.0362	0.2420	0.0543	0.3631	
56	19.60	-0.07	0.0490	0.0074	0.0346	0.1501	0.7067	0.6819	0.0357	0.2482	0.0524	0.3640	
57	19.92	-0.08	0.0398	0.0060	0.0294	0.1508	0.7377	0.6975	0.0355	0.2547	0.0509	0.3652	
58	20.25	-0.07	0.0345	0.0059	0.0300	0.1697	0.8694	0.7062	0.0352	0.2570	0.0499	0.3640	
59	20.59	-0.07	0.0344	0.0065	0.0312	0.1657	0.7926	0.7282	0.0342	0.2655	0.0470	0.3645	
60	20.91	-0.08	0.0459	0.0071	0.0336	0.1537	0.7319	0.7316	0.0342	0.2687	0.0468	0.3673	
61	21.24	-0.07	0.0458	0.0071	0.0335	0.1540	0.7306	0.7576	0.0331	0.2761	0.0437	0.3670	
62	21.55	-0.07	0.0459	0.0068	0.0335	0.1488	0.7297	0.7602	0.0328	0.2817	0.0432	0.3706	
63	21.87	-0.06	0.0421	0.0074	0.0342	0.1747	0.8130	0.7869	0.0311	0.2933	0.0395	0.3728	
64	22.16	-0.07	0.0441	0.0071	0.0328	0.1617	0.7436	0.7821	0.0316	0.2889	0.0404	0.3694	
65	22.48	-0.07	0.0424	0.0071	0.0323	0.1664	0.7625	0.8059	0.0306	0.2980	0.0380	0.3697	
66	22.78	-0.08	0.0458	0.0070	0.0338	0.1524	0.7371	0.8189	0.0294	0.3051	0.0359	0.3726	
67	23.09	-0.07	0.0547	0.0092	0.0397	0.1688	0.7263	0.8392	0.0285	0.3139	0.0339	0.3741	
68	23.40	-0.08	0.0452	0.0080	0.0357	0.1760	0.7490	0.8407	0.0284	0.3188	0.0338	0.3793	
69	23.71	-0.07	0.0483	0.0086	0.0362	0.1787	0.7494	0.8734	0.0273	0.3239	0.0313	0.3709	
70	24.04	-0.08	0.0446	0.0068	0.0320	0.1603	0.7511	0.8391	0.0285	0.3161	0.0339	0.3767	
71	24.33	-0.08	0.0505	0.0081	0.0351	0.1605	0.6956	0.8759	0.0266	0.3283	0.0303	0.3748	
72	24.65	-0.07	0.0539	0.0084	0.0360	0.1559	0.6672	0.8866	0.0261	0.3323	0.0294	0.3749	
73	24.94	-0.07	0.0489	0.0077	0.0362	0.1565	0.7402	0.8762	0.0265	0.3324	0.0303	0.3793	
74	25.23	-0.07	0.0404	0.0074	0.0342	0.1820	0.8456	0.8746	0.0266	0.3316	0.0304	0.3792	
75	25.51	-0.09	0.0502	0.0083	0.0373	0.1659	0.7436	0.9033	0.0252	0.3423	0.0279	0.3790	
76	25.82	-0.08	0.0535	0.0087	0.0378	0.1627	0.7070	0.9014	0.0250	0.3422	0.0277	0.3796	
77	26.10	-0.09	0.0465	0.0083	0.0395	0.1775	0.6493	0.9147	0.0242	0.3478	0.0264	0.3803	
78	26.41	-0.09	0.0500	0.0081	0.0404	0.1621	0.8072	0.9254	0.0242	0.3475	0.0261	0.3755	
79	26.71	-0.09	0.0466	0.0083	0.0383	0.1788	0.8225	0.9303	0.0238	0.3519	0.0256	0.3783	
80	27.00	-0.08	0.0500	0.0083	0.0392	0.1666	0.7832	0.9384	0.0231	0.3566	0.0246	0.3800	
81	27.32	-0.07	0.0550	0.0086	0.0407	0.1569	0.7405	0.9281	0.0234	0.3540	0.0252	0.3814	
82	27.60	-0.09	0.0495	0.0093	0.0404	0.1880	0.8160	0.9654	0.0216	0.3636	0.0223	0.3766	
83	27.92	-0.09	0.0499	0.0088	0.0382	0.1760	0.7661	0.9550	0.0219	0.3628	0.0229	0.3798	
84	28.21	-0.09	0.0546	0.0093	0.0417	0.1704	0.7636	0.9634	0.0214	0.3659	0.0222	0.3797	
85	28.52	-0.09	0.0626	0.0101	0.0452	0.1606	0.7214	0.9738	0.0205	0.3709	0.0210	0.3809	
86	28.82	-0.08	0.0482	0.0083	0.0396	0.1728	0.8208	0.9760	0.0203	0.3710	0.0208	0.3801	
87	29.16	-0.08	0.0450	0.0077	0.0385	0.1718	0.8554	0.9780	0.0200	0.3736	0.0204	0.3820	
88	29.40	-0.06	0.0645	0.0098	0.0451	0.1513	0.6991	0.9804	0.0194	0.3763	0.0198	0.3838	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	8	0.92	1.7	0.0	B2WOF13	0.0	0	0	0	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	-2.78	0.02	-0.3903	0.9524	0.0095	0.0127	-0.0090	0.1925	-2.4400
2	-2.48	0.02	-0.3456	0.8317	0.0373	-0.0532	-0.0060	0.1895	-2.4069
3	-1.90	0.03	-0.2536	0.6090	0.0301	0.0089	-0.0110	0.1924	-2.4016
4	-1.30	0.02	-0.1784	0.3827	-0.0197	-0.0354	-0.0080	0.1946	-2.1455
5	-0.76	0.02	-0.0955	0.1787	-0.0176	-0.0054	-0.0130	0.2016	-1.8712
6	-0.21	0.01	0.0021	-0.0179	-0.0360	-0.0376	-0.0140	0.2028	-8.5429
7	0.29	0.02	0.0609	-0.1942	0.0209	0.0187	-0.0150	0.2053	-3.1898
8	0.83	0.01	0.1473	-0.3702	-0.0457	0.0050	-0.0090	0.2091	-2.5134
9	1.31	0.02	0.2306	-0.5868	0.0239	0.0135	-0.0100	0.2078	-2.5448
10	1.80	0.02	0.3201	-0.7910	0.0310	0.0126	-0.0090	0.2063	-2.4715
11	2.29	0.01	0.3996	-1.0364	0.0083	0.0664	-0.0080	0.2010	-2.5934
12	2.76	0.0	0.4756	-1.2528	-0.0381	0.0353	-0.0040	0.2052	-2.6340
13	3.26	0.01	0.5861	-1.5345	-0.0278	0.1171	-0.0040	0.1980	-2.6180
14	3.71	0.01	0.6576	-1.7526	0.0440	0.0744	-0.0040	0.1995	-2.6650
15	4.17	0.0	0.7508	-2.0320	0.0612	0.0783	-0.0040	0.1991	-2.7064
16	4.61	-0.01	0.8509	-2.3061	-0.0434	-0.0022	-0.0010	0.1992	-2.7102
17	5.09	0.0	0.9731	-2.5881	-0.0106	0.1058	0.0	0.2010	-2.6598
18	5.51	0.0	1.0523	-2.8840	-0.0110	0.0824	-0.0030	0.2070	-2.7407
19	5.95	-0.01	1.1416	-3.1230	-0.0137	0.1062	-0.0040	0.2070	-2.7357
20	6.40	-0.03	1.2519	-3.4665	0.0032	0.0675	-0.0110	0.2100	-2.7689
21	6.84	-0.02	1.3396	-3.6912	0.0286	0.0715	-0.0080	0.2081	-2.7554
22	7.29	-0.02	1.4231	-3.9791	0.0028	0.1981	-0.0120	0.2170	-2.7960
23	7.73	-0.03	1.5254	-4.2563	-0.0250	0.1410	-0.0050	0.2101	-2.7903
24	8.17	0.0	1.6110	-4.5121	-0.0307	0.1810	-0.0040	0.2138	-2.8008
25	8.58	-0.02	1.7122	-4.7547	0.0188	0.1787	-0.0110	0.2149	-2.7799
26	8.98	-0.02	1.7788	-4.9699	0.0496	0.2255	0.0090	0.2150	-2.7940
27	9.37	-0.02	1.8580	-5.1608	-0.0019	0.1266	0.0120	0.2167	-2.7777
28	9.79	0.0	1.9012	-5.1683	-0.0124	0.1143	-0.0040	0.2119	-2.7185
29	10.20	-0.04	1.9575	-5.2842	0.0060	0.1046	-0.0150	0.2110	-2.6994
30	10.60	-0.01	2.0156	-5.3536	0.0172	0.0939	-0.0220	0.2057	-2.6560
31	11.00	0.0	2.0639	-5.4952	0.0869	0.2313	-0.0250	0.2067	-2.6625
32	11.36	-0.05	2.1353	-5.6401	0.0027	0.1132	-0.0340	0.2100	-2.6413
33	11.73	-0.05	2.2150	-5.7827	-0.0063	0.0498	-0.0390	0.2136	-2.6107
34	12.10	-0.06	2.2559	-5.8019	-0.0959	0.1062	-0.0320	0.2108	-2.5719
35	12.45	-0.05	2.3337	-5.9488	-0.0373	0.0722	-0.0300	0.2151	-2.5491
36	12.81	-0.05	2.3915	-6.0577	-0.0116	0.1082	-0.0380	0.2120	-2.5330
37	13.16	-0.05	2.4789	-6.2141	-0.0226	0.0766	-0.0320	0.2132	-2.5068
38	13.53	-0.06	2.5310	-6.3190	-0.0664	0.0509	-0.0360	0.2153	-2.4967
39	13.87	-0.05	2.6086	-6.4096	-0.0223	0.1412	-0.0350	0.2128	-2.4571
40	14.23	-0.06	2.6568	-6.4701	-0.0953	0.0314	-0.0460	0.2119	-2.4353
41	14.59	-0.04	2.7012	-6.5204	0.0296	0.0891	-0.0470	0.2077	-2.4138
42	14.94	-0.05	2.7673	-6.5705	-0.0237	0.1402	-0.0430	0.2105	-2.3745
43	15.30	-0.06	2.8241	-6.6244	-0.1133	0.1946	-0.0400	0.2068	-2.3457
44	15.63	-0.05	2.8613	-6.6895	-0.1150	0.2540	-0.0470	0.2079	-2.3379
45	15.96	-0.05	2.8702	-6.6000	-0.0962	0.2187	-0.0670	0.2132	-2.2995
46	16.28	-0.05	2.9555	-6.7434	0.0027	0.0442	-0.0670	0.2060	-2.2816

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	8	0.92	1.7	0.0	82WOF13	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.63	-0.05	3.0348	-6.8434	-0.0119	0.0886	-0.0640	0.1977	-2.2550	
48	16.95	-0.05	3.0185	-6.5966	-0.0109	-0.0197	-0.1070	0.2099	-2.1860	
49	17.30	-0.07	2.9195	-5.9681	0.1342	-0.7068	-0.2020	0.2426	-2.0442	
50	17.63	-0.07	2.9606	-5.9766	0.0589	-0.4724	-0.1820	0.2346	-2.0194	
51	17.97	-0.06	3.0289	-5.9612	0.2140	-0.7115	-0.2060	0.2305	-1.9681	
52	18.30	-0.08	3.0518	-5.9343	0.1662	-0.8346	-0.2060	0.2196	-1.9445	
53	18.65	-0.08	3.0977	-5.9336	0.1095	-0.7082	-0.1970	0.2114	-1.9155	
54	18.97	-0.08	3.1442	-5.9427	0.1648	-0.6676	-0.1860	0.2089	-1.8900	
55	19.30	-0.09	3.1756	-5.8986	0.0654	-0.5375	-0.1670	0.1997	-1.8575	
56	19.63	-0.07	3.2447	-5.8334	0.0842	-0.5828	-0.1480	0.2033	-1.7978	
57	19.98	-0.07	3.2554	-5.7564	0.1141	-0.3887	-0.1430	0.1978	-1.7683	
58	20.30	-0.07	3.3248	-5.8355	0.0455	-0.1127	-0.1120	0.1933	-1.7552	
59	20.64	-0.08	3.3978	-5.9857	-0.0507	-0.1180	-0.1060	0.1856	-1.7617	
60	20.96	-0.08	3.4776	-6.2225	-0.0193	-0.2684	-0.1230	0.1690	-1.7893	
61	21.30	-0.08	3.5370	-6.2177	0.0115	-0.1753	-0.1020	0.1630	-1.7579	
62	21.60	-0.08	3.5657	-6.2469	0.0122	-0.1521	-0.0970	0.1617	-1.7519	
63	21.91	-0.07	3.6504	-6.4024	0.0902	-0.1373	-0.0890	0.1520	-1.7539	
64	22.21	-0.07	3.7344	-6.5400	0.0125	-0.0285	-0.1150	0.1403	-1.7513	
65	22.51	-0.08	3.7143	-6.3869	-0.0448	0.0087	-0.1110	0.1361	-1.7195	
66	22.84	-0.08	3.8621	-6.6308	0.0127	-0.1368	-0.1080	0.1352	-1.7169	
67	23.15	-0.07	3.9328	-6.6258	0.1187	-0.2791	-0.0920	0.1331	-1.6847	
68	23.47	-0.07	3.9921	-6.6868	0.1129	-0.2110	-0.0660	0.1359	-1.6750	
69	23.78	-0.08	4.0879	-6.7589	0.0335	-0.1249	-0.0890	0.1141	-1.6534	
70	24.12	-0.08	4.2091	-7.0067	0.0114	-0.0710	-0.1070	0.1053	-1.6646	
71	24.42	-0.08	4.1461	-6.6364	0.0135	-0.1069	-0.0840	0.1026	-1.6006	
72	24.75	-0.09	4.1850	-6.6608	-0.0344	-0.0848	-0.0900	0.0849	-1.5916	
73	25.04	-0.09	4.2476	-6.6416	0.0396	-0.2034	-0.0690	0.0808	-1.5636	
74	25.34	-0.08	4.3676	-6.7836	-0.0779	0.2890	-0.1300	0.0642	-1.5532	
75	25.61	-0.10	4.2967	-6.5224	0.0398	-0.3617	-0.0540	0.0610	-1.5180	
76	25.93	-0.08	4.4206	-6.5348	0.0406	-0.1938	-0.0530	0.0564	-1.4783	
77	26.23	-0.09	4.4406	-6.3888	0.0317	-0.2004	-0.0650	0.0402	-1.4387	
78	26.52	-0.08	4.4479	-6.4940	0.0764	-0.1109	-0.0600	0.0348	-1.4438	
79	26.84	-0.08	4.5512	-6.3177	0.0754	-0.1205	-0.0510	0.0212	-1.3881	
80	27.13	-0.09	4.5946	-6.2615	0.0253	-0.0774	-0.0480	0.0135	-1.3628	
81	27.45	-0.10	4.7023	-6.2972	-0.0344	-0.1038	-0.0330	0.0104	-1.3392	
82	27.74	-0.09	4.7757	-6.3400	-0.0023	-0.0408	-0.0410	-0.0001	-1.3276	
83	28.05	-0.08	4.8286	-6.2521	0.0452	-0.0543	-0.0510	-0.0157	-1.2948	
84	28.35	-0.09	4.9463	-6.2628	0.1407	-0.4339	-0.0060	-0.0150	-1.2662	
85	28.67	-0.07	4.9924	-6.1935	0.2333	-0.3786	0.0070	-0.0205	-1.2406	
86	28.97	-0.03	5.1510	-6.5925	0.2690	0.2694	-0.0190	-0.0276	-1.2798	
87	29.35	-0.13	5.3325	-6.0977	-0.1584	-0.2292	-0.0120	0.0023	-1.1435	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		8	0.92	1.7	0.0	82WOF13	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.78	0.02	-0.0241	-0.0041	-0.0082	0.1713	0.3415	-0.1863	-0.0382	-0.0678	0.2051	0.3638
2	-2.48	0.02	-0.0122	-0.0025	-0.007C	0.2030	0.5709	-0.1683	-0.0348	-0.0613	0.2066	0.3641
3	-1.90	0.03	-0.0101	-0.0018	-0.0058	0.1783	0.5708	-0.1279	-0.0259	-0.0429	0.2026	0.3356
4	-1.30	0.02	-0.0091	-0.0008	-0.0050	0.0825	0.5530	-0.0909	-0.0166	-0.0238	0.1825	0.2617
5	-0.76	0.02	-0.0224	-0.0038	-0.0078	0.1709	0.3466	-0.0594	-0.0092	-0.0130	0.1541	0.2187
6	-0.21	0.01	-0.0116	-0.0017	-0.0046	0.1423	0.3236	-0.0172	0.0005	0.0020	-0.0262	-0.1145
7	0.29	0.02	-0.0121	-0.0021	-0.0044	0.1737	0.3663	0.0037	0.0071	0.0139	1.9066	3.7656
8	0.83	0.01	-0.0094	-0.0008	-0.0024	0.0798	0.2587	0.0365	0.0157	0.0261	0.4297	0.7140
9	1.31	0.02	-0.0210	-0.0035	-0.0043	0.1680	0.2046	0.0702	0.0230	0.0417	0.3271	0.5939
10	1.80	0.02	-0.0003	0.0011	-0.0001	-3.5022	0.3332	0.1073	0.0306	0.0563	0.2849	0.5244
11	2.29	0.01	-0.0099	-0.0011	-0.0008	0.1661	0.0807	0.1394	0.0383	0.0722	0.2748	0.5177
12	2.76	0.0	-0.0015	-0.0002	-0.0018	0.1501	1.1999	0.1724	0.0446	0.0854	0.2587	0.4951
13	3.26	0.01	-0.0078	-0.0019	-0.0014	0.2405	0.1794	0.2045	0.0532	0.1013	0.2603	0.4952
14	3.71	0.01	-0.0040	-0.0011	-0.0004	0.2627	0.1082	0.2395	0.0546	0.1121	0.2489	0.4681
15	4.17	0.0	-0.0081	-0.0022	-0.0014	0.2687	0.1727	0.2787	0.0674	0.1320	0.2420	0.4736
16	4.61	-0.01	-0.0064	-0.0020	-0.0011	0.3166	0.1770	0.3135	0.0728	0.1457	0.2323	0.4647
17	5.09	0.0	-0.0139	-0.0036	-0.0025	0.2592	0.1821	0.3507	0.0776	0.1608	0.2214	0.4585
18	5.51	0.0	-0.0133	-0.0031	-0.0027	0.2313	0.2554	0.3905	0.0806	0.1771	0.2065	0.4534
19	5.95	-0.01	-0.0113	-0.0026	-0.0023	0.2258	0.2005	0.4224	0.0827	0.1906	0.1957	0.4512
20	6.40	-0.03	-0.0075	-0.0017	-0.0025	0.2301	0.3332	0.4739	0.0835	0.2133	0.1762	0.4502
21	6.84	-0.02	-0.0109	-0.0025	-0.0046	0.2272	0.4250	0.4912	0.0845	0.2251	0.1699	0.4528
22	7.29	-0.02	-0.0188	-0.0031	-0.0061	0.1637	0.3226	0.5398	0.0848	0.2441	0.1570	0.4522
23	7.73	-0.03	-0.0183	-0.0025	-0.0050	0.1353	0.2731	0.5756	0.0858	0.2567	0.1490	0.4493
24	8.17	0.0	-0.0083	-0.0011	-0.0017	0.1266	0.2007	0.6080	0.0854	0.2708	0.1404	0.4454
25	8.58	-0.02	-0.0232	-0.0032	-0.0073	0.1391	0.3160	0.6414	0.0860	0.2861	0.1341	0.4462
26	8.98	-0.02	-0.0119	-0.0020	-0.0045	0.1703	0.3752	0.6535	0.0835	0.2824	0.1278	0.4321
27	9.37	-0.02	-0.0169	-0.0028	-0.0066	0.1643	0.3924	0.6728	0.0830	0.2922	0.1233	0.4343
28	9.79	0.0	-0.0173	-0.0033	-0.0080	0.1909	0.4604	0.6876	0.0824	0.2944	0.1198	0.4282
29	10.20	-0.04	-0.0268	-0.0041	-0.0086	0.1512	0.3220	0.7046	0.0832	0.3013	0.1138	0.4276
30	10.60	-0.01	-0.0206	-0.0048	-0.0057	0.2332	0.2750	0.7226	0.0780	0.3033	0.1080	0.4198
31	11.00	0.0	-0.0196	-0.0053	-0.0067	0.2719	0.3434	0.7394	0.0759	0.3115	0.1027	0.4213
32	11.36	-0.05	-0.0202	-0.0058	-0.0058	0.2861	0.2887	0.7613	0.0719	0.3177	0.0945	0.4173
33	11.73	-0.05	-0.0103	-0.0065	-0.0077	0.6266	0.7507	0.7827	0.0886	0.3259	0.0877	0.4163
34	12.10	-0.06	-0.0148	-0.0062	-0.0049	0.4209	0.3332	0.7869	0.0856	0.3264	0.0832	0.4137
35	12.45	-0.05	-0.0224	-0.0063	-0.0041	0.2814	0.1814	0.7977	0.0808	0.3302	0.0762	0.4139
36	12.81	-0.05	-0.0226	-0.0070	-0.0077	0.3086	0.3421	0.8124	0.0584	0.3336	0.0719	0.4106
37	13.16	-0.05	-0.0272	-0.0068	-0.0106	0.3228	0.3884	0.8341	0.0551	0.3412	0.0661	0.4090
38	13.53	-0.06	-0.0316	-0.0088	-0.0101	0.2779	0.3206	0.8452	0.0525	0.3479	0.0621	0.4116
39	13.87	-0.05	-0.0197	-0.0095	-0.0053	0.4800	0.2672	0.8571	0.0488	0.3511	0.0569	0.4097
40	14.23	-0.06	-0.0421	-0.0105	-0.0114	0.2496	0.2715	0.8665	0.0446	0.3515	0.0517	0.4056
41	14.59	-0.04	-0.0328	-0.0107	-0.0052	0.3272	0.1594	0.8782	0.0423	0.3552	0.0481	0.4044
42	14.94	-0.05	-0.0497	-0.0112	-0.0154	0.2250	0.3091	0.8797	0.0355	0.3508	0.0404	0.3987
43	15.30	-0.06	-0.0490	-0.0115	-0.0120	0.2343	0.2455	0.8826	0.0343	0.3521	0.0389	0.3990
44	15.63	-0.05	-0.0543	-0.0138	-0.0125	0.2543	0.2301	0.8943	0.0318	0.3556	0.0356	0.3977
45	15.96	-0.05	-0.0434	-0.0129	-0.0098	0.2974	0.2249	0.9014	0.0308	0.3584	0.0342	0.3976
46	16.28	-0.05	-0.0507	-0.0131	-0.0115	0.2576	0.2267	0.9099	0.0291	0.3626	0.0320	0.3985

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			8	0.92	1.7	0.0	82WOF13	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.63	-0.05	-0.0655	-0.0110	-0.0287	0.1673	0.4386	0.9075	0.0291	0.3594	0.0321	0.3961
48	16.95	-0.05	-0.0424	-0.0140	-0.0145	0.3292	0.3521	0.9273	0.0274	0.3672	0.0296	0.3960
49	17.30	-0.07	0.0031	-0.0146	0.0041	-4.7207	1.3332	0.9595	0.0245	0.3830	0.0255	0.3991
50	17.63	-0.07	0.0237	-0.0199	0.0262	-0.8391	1.1054	0.9754	0.0246	0.3920	0.0252	0.4018
51	17.97	-0.06	0.0188	-0.0157	0.0398	-0.8363	0.5194	0.9822	0.0226	0.3920	0.0230	0.3991
52	18.30	-0.08	0.0133	-0.0170	0.0075	-1.2009	0.5663	0.9765	0.0222	0.3894	0.0227	0.3993
53	18.65	-0.08	-0.0043	-0.0176	0.0638	4.1014	-0.8761	0.9658	0.0221	0.3871	0.0229	0.4008
54	18.97	-0.08	0.0074	-0.0176	0.0040	-2.3731	0.5359	0.9594	0.0225	0.3808	0.0234	0.3969
55	19.30	-0.09	0.0060	-0.0193	0.0119	-3.2145	1.9832	0.9521	0.0219	0.3792	0.0230	0.3983
56	19.63	-0.07	-0.0006	-0.0200	0.0023	33.2707	-3.8335	0.9254	0.0233	0.3660	0.0252	0.3955
57	19.98	-0.07	-0.0240	-0.0162	-0.0164	0.6754	0.6832	0.8777	0.0266	0.3408	0.0303	0.3683
58	20.30	-0.07	-0.0269	-0.0136	-0.0186	0.5050	0.6901	0.8716	0.0264	0.3409	0.0302	0.3912
59	20.64	-0.08	-0.0255	-0.0165	-0.0075	0.6475	0.2940	0.8794	0.0255	0.3465	0.0290	0.3940
60	20.96	-0.08	-0.0302	-0.0200	-0.0107	0.6610	0.3531	0.9172	0.0237	0.3653	0.0259	0.3982
61	21.30	-0.08	-0.0368	-0.0169	-0.0154	0.4588	0.4175	0.8887	0.0246	0.3502	0.0277	0.3940
62	21.60	-0.08	-0.0379	-0.0179	-0.0152	0.4713	0.4018	0.9014	0.0243	0.3556	0.0270	0.3945
63	21.91	-0.07	-0.0377	-0.0163	-0.0157	0.4320	0.4154	0.9119	0.0241	0.3609	0.0264	0.3958
64	22.21	-0.07	-0.0391	-0.0166	-0.0188	0.4242	0.4816	0.9363	0.0229	0.3672	0.0245	0.3922
65	22.51	-0.08	-0.0539	-0.0207	-0.0185	0.3843	0.3425	0.9239	0.0234	0.3617	0.0253	0.3915
66	22.84	-0.08	-0.0386	-0.0113	-0.0272	0.2936	0.7037	0.9450	0.0219	0.3729	0.0231	0.3946
67	23.15	-0.07	-0.0146	0.0002	-0.0313	-0.0107	2.2332	0.9285	0.0227	0.3622	0.0244	0.3901
68	23.47	-0.07	-0.0084	-0.0027	-0.0280	0.3216	3.3332	0.9396	0.0217	0.3692	0.0231	0.3930
69	23.78	-0.08	-0.0228	-0.0111	-0.0195	0.4871	0.8551	0.9739	0.0206	0.3809	0.0211	0.3911
70	24.12	-0.08	-0.0234	-0.0116	-0.0188	0.4971	0.8033	0.9961	0.0194	0.3877	0.0194	0.3892
71	24.42	-0.08	0.0202	0.0008	-0.0127	0.0372	-0.6272	0.9576	0.0204	0.3717	0.0213	0.3882
72	24.75	-0.09	-0.0466	-0.0184	-0.0217	0.3946	0.4663	0.9909	0.0188	0.3909	0.0190	0.3945
73	25.04	-0.09	-0.0063	-0.0092	-0.0156	1.4533	2.4761	0.9728	0.0193	0.3812	0.0198	0.3918
74	25.34	-0.08	-0.0858	-0.0326	-0.0296	0.3756	0.3649	1.0313	0.0162	0.4073	0.0157	0.3949
75	25.61	-0.10	0.0511	-0.0026	0.0057	-0.0514	0.1121	0.9774	0.0185	0.3813	0.0190	0.3901
76	25.93	-0.08	0.0227	-0.0055	-0.0020	-0.2413	-0.0897	0.9929	0.0175	0.3867	0.0176	0.3844
77	26.23	-0.09	0.0135	-0.0119	-0.0056	-0.8783	-0.4149	0.9845	0.0179	0.3849	0.0182	0.3909
78	26.52	-0.08	0.0307	-0.0059	0.0020	-0.1907	0.0661	0.9878	0.0179	0.3839	0.0182	0.3886
79	26.84	-0.08	0.0434	-0.0074	0.0062	-0.1712	0.1420	0.9844	0.0181	0.3842	0.0184	0.3902
80	27.13	-0.09	0.0077	-0.0122	-0.0093	-1.5886	-1.2122	0.9868	0.0177	0.3852	0.0180	0.3903
81	27.45	-0.10	0.0893	0.0035	0.0362	0.0387	0.4049	0.9960	0.0174	0.3859	0.0175	0.3875
82	27.74	-0.09	0.0494	-0.0044	0.0081	-0.0896	0.1632	0.9969	0.0166	0.3900	0.0166	0.3912
83	28.05	-0.08	0.0142	-0.0080	-0.0008	-0.5602	-0.0541	1.0020	0.0170	0.3878	0.0170	0.3876
84	28.35	-0.09	0.0657	-0.0014	0.0118	-0.0206	0.1795	1.0079	0.0163	0.3928	0.0162	0.3897
85	28.67	-0.07	0.1341	0.0090	0.0498	0.0672	0.3713	1.0041	0.0164	0.3885	0.0163	0.3869
86	28.97	-0.03	0.0750	-0.0014	0.0204	-0.0180	0.2719	1.0198	0.0152	0.3972	0.0149	0.3895
87	29.35	-0.13	0.0412	-0.0026	0.0173	-0.0619	0.4206	1.0358	0.0144	0.4036	0.0139	0.3896

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RAIO-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		8		0.92 1.7		0.0	820F13	0.0	0	0	0	0	FIXED
PGANT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
1	-2.78	0.02	0.0043	0.0032	0.0054	0.7330	1.2034	-0.1651	-0.0396	-0.0639	0.2397	0.3872	
2	-2.48	0.02	0.0078	0.0025	0.0039	0.3175	0.4999	-0.1486	-0.0360	-0.0566	0.2426	0.3810	
3	-1.90	0.03	0.0085	0.0038	0.0065	0.4503	0.7685	-0.1104	-0.0284	-0.0396	0.2572	0.3586	
4	-1.30	0.02	0.0086	0.0038	0.0065	0.4363	0.7518	-0.0687	-0.0231	-0.0224	0.2928	0.3259	
5	-0.76	0.02	0.0163	0.0038	0.0069	0.2302	0.4252	-0.0364	-0.0116	-0.0073	0.3237	0.2013	
6	-0.21	0.01	0.0203	0.0050	0.0082	0.2477	0.4022	-0.0039	-0.0031	0.0055	0.7890	-1.4104	
7	0.29	0.02	0.0208	0.0039	0.0086	0.1876	0.3861	0.0226	0.0051	0.0169	0.2258	0.7441	
8	0.83	0.01	0.0163	0.0036	0.0069	0.2210	0.4252	0.0554	0.0131	0.0303	0.2357	0.5462	
9	1.31	0.02	0.0222	0.0041	0.0076	0.1859	0.3422	0.0938	0.0204	0.0481	0.2179	0.5136	
10	1.80	0.02	0.0140	0.0047	0.0102	0.3323	0.7261	0.1241	0.0253	0.0595	0.2040	0.4792	
11	2.29	0.01	0.0218	0.0047	0.0096	0.2134	0.4387	0.1697	0.0341	0.0775	0.2009	0.4564	
12	2.76	0.0	0.0131	0.0036	0.0079	0.2750	0.6004	0.1954	0.0390	0.0895	0.1994	0.4582	
13	3.26	0.01	0.0172	0.0042	0.0108	0.2443	0.6297	0.2346	0.0478	0.1091	0.2035	0.4650	
14	3.71	0.01	0.0217	0.0047	0.0103	0.2144	0.4761	0.2698	0.0531	0.1222	0.1967	0.4530	
15	4.17	0.0	0.0276	0.0052	0.0113	0.1876	0.4093	0.3137	0.0595	0.1387	0.1898	0.4423	
16	4.61	-0.01	0.0232	0.0048	0.0104	0.2070	0.4496	0.3546	0.0662	0.1567	0.1868	0.4418	
17	5.09	0.0	0.0219	0.0042	0.0103	0.1919	0.4702	0.3981	0.0704	0.1737	0.1769	0.4363	
18	5.51	0.0	0.0289	0.0052	0.0124	0.1792	0.4301	0.4365	0.0729	0.1902	0.1670	0.4357	
19	5.95	-0.01	0.0317	0.0053	0.0146	0.1657	0.4594	0.4650	0.0737	0.2051	0.1584	0.4410	
20	6.40	-0.03	0.0343	0.0064	0.0155	0.1860	0.4527	0.5050	0.0755	0.2227	0.1496	0.4410	
21	6.84	-0.02	0.0300	0.0057	0.0147	0.1901	0.4899	0.5382	0.0766	0.2374	0.1423	0.4410	
22	7.29	-0.02	0.0314	0.0058	0.0156	0.1846	0.4956	0.5793	0.0766	0.2578	0.1322	0.4450	
23	7.73	-0.03	0.0270	0.0053	0.0150	0.1946	0.5554	0.6169	0.0779	0.2743	0.1263	0.4446	
24	8.17	0.0	0.0308	0.0064	0.0183	0.2071	0.5930	0.6478	0.0784	0.2914	0.1210	0.4498	
25	8.58	-0.02	0.0314	0.0053	0.0164	0.1673	0.5211	0.6765	0.0779	0.3060	0.1152	0.4523	
26	8.98	-0.02	0.0282	0.0052	0.0175	0.1836	0.6204	0.7219	0.0782	0.3235	0.1083	0.4481	
27	9.37	-0.02	0.0350	0.0065	0.0213	0.1844	0.6075	0.7473	0.0773	0.3373	0.1035	0.4513	
28	9.79	0.0	0.0355	0.0057	0.0193	0.1607	0.5445	0.7320	0.0769	0.3189	0.1050	0.4356	
29	10.20	-0.04	0.0355	0.0056	0.0196	0.1564	0.5529	0.7441	0.0745	0.3209	0.1001	0.4312	
30	10.63	-0.01	0.0408	0.0066	0.0233	0.1614	0.5710	0.7505	0.0705	0.3181	0.0939	0.4239	
31	11.00	0.0	0.0352	0.0056	0.0220	0.1578	0.6258	0.7712	0.0674	0.3244	0.0873	0.4207	
32	11.36	-0.05	0.0353	0.0055	0.0221	0.1552	0.6250	0.7701	0.0619	0.3250	0.0804	0.4220	
33	11.73	-0.05	0.0397	0.0057	0.0233	0.1437	0.5876	0.7801	0.0568	0.3263	0.0729	0.4182	
34	12.10	-0.06	0.0413	0.0056	0.0232	0.1345	0.5608	0.7924	0.0529	0.3312	0.0667	0.4179	
35	12.45	-0.05	0.0393	0.0060	0.0253	0.1528	0.6436	0.8140	0.0510	0.3393	0.0626	0.4168	
36	12.81	-0.05	0.0453	0.0064	0.0254	0.1408	0.5606	0.8260	0.0485	0.3446	0.0587	0.4172	
37	13.16	-0.05	0.0454	0.0061	0.0254	0.1339	0.5601	0.8496	0.0472	0.3532	0.0555	0.4158	
38	13.53	-0.06	0.0454	0.0060	0.0262	0.1322	0.5777	0.8614	0.0447	0.3586	0.0519	0.4163	
39	13.87	-0.05	0.0379	0.0056	0.0254	0.1465	0.6709	0.8660	0.0431	0.3588	0.0497	0.4133	
40	14.23	-0.06	0.0434	0.0066	0.0276	0.1522	0.6351	0.8657	0.0402	0.3601	0.0465	0.4160	
41	14.59	-0.04	0.0437	0.0062	0.0267	0.1425	0.6101	0.8748	0.0381	0.3613	0.0435	0.4130	
42	14.94	-0.05	0.0481	0.0067	0.0272	0.1389	0.5661	0.8906	0.0364	0.3651	0.0409	0.4099	
43	15.30	-0.06	0.0439	0.0059	0.0263	0.1333	0.5997	0.8929	0.0355	0.3659	0.0398	0.4097	
44	15.63	-0.05	0.0435	0.0065	0.0275	0.1501	0.6321	0.8990	0.0354	0.3667	0.0393	0.4079	
45	15.96	-0.05	0.0440	0.0056	0.0264	0.1262	0.5991	0.8850	0.0327	0.3532	0.0370	0.3991	
46	16.28	-0.05	0.0450	0.0065	0.0281	0.1434	0.6243	0.8651	0.0312	0.3520	0.0360	0.4069	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH KX10-6			PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6			8	0.92	1.7	0.0	0.2	0.0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPCF3	YCPCF3	CNF4	CM4	CB4	XCPCF4	YCPCF4
47	16.63	-0.05	0.0416	0.0068	0.0293	0.1624	0.7034	0.9216	0.0308	0.3742	0.0334	0.4061
48	16.95	-0.05	0.0476	0.0070	0.0306	0.1466	0.6420	0.8532	0.0299	0.3418	0.0350	0.4006
49	17.30	-0.07	0.0575	0.0083	0.0340	0.1436	0.5906	0.6716	0.0321	0.2707	0.0479	0.4031
50	17.63	-0.07	0.0481	0.0062	0.0295	0.1279	0.6222	0.6628	0.0319	0.2725	0.0467	0.3992
51	17.97	-0.06	0.0563	0.0077	0.0334	0.1373	0.5925	0.6585	0.0321	0.2665	0.0487	0.4048
52	18.30	-0.08	0.0544	0.0080	0.0359	0.1462	0.6604	0.6598	0.0318	0.2673	0.0483	0.4051
53	18.65	-0.08	0.0516	0.0076	0.0350	0.1469	0.6782	0.6744	0.0311	0.2751	0.0458	0.4055
54	18.97	-0.08	0.0501	0.0076	0.0349	0.1513	0.6965	0.6873	0.0306	0.2777	0.0446	0.4041
55	19.30	-0.09	0.0458	0.0071	0.0338	0.1557	0.7371	0.6931	0.0303	0.2821	0.0437	0.4070
56	19.63	-0.07	0.0453	0.0079	0.0355	0.1739	0.7835	0.7057	0.0294	0.2897	0.0417	0.4105
57	19.98	-0.07	0.0559	0.0084	0.0376	0.1504	0.6731	0.7255	0.0284	0.2958	0.0391	0.4077
58	20.30	-0.07	0.0412	0.0075	0.0338	0.1822	0.8211	0.7478	0.0274	0.3074	0.0366	0.4111
59	20.64	-0.08	0.0402	0.0070	0.0314	0.1736	0.7810	0.7824	0.0266	0.3160	0.0340	0.4039
60	20.96	-0.08	0.0485	0.0080	0.0370	0.1640	0.7621	0.7727	0.0268	0.3151	0.0347	0.4078
61	21.30	-0.08	0.0473	0.0080	0.0347	0.1682	0.7328	0.7974	0.0257	0.3259	0.0322	0.4086
62	21.60	-0.08	0.0487	0.0081	0.0355	0.1664	0.7377	0.7980	0.0252	0.3301	0.0315	0.4136
63	21.91	-0.07	0.0426	0.0081	0.0353	0.1903	0.8285	0.8227	0.0242	0.3402	0.0294	0.4135
64	22.21	-0.07	0.0476	0.0077	0.0348	0.1608	0.7303	0.8389	0.0237	0.3419	0.0283	0.4075
65	22.51	-0.08	0.0487	0.0081	0.0362	0.1664	0.7439	0.8318	0.0238	0.3401	0.0286	0.4089
66	22.84	-0.08	0.0588	0.0094	0.0405	0.1595	0.6887	0.8077	0.0223	0.3549	0.0257	0.4090
67	23.15	-0.07	0.0526	0.0094	0.0385	0.1783	0.7325	0.9057	0.0206	0.3659	0.0228	0.4040
68	23.47	-0.07	0.0481	0.0091	0.0381	0.1888	0.7927	0.9127	0.0197	0.3725	0.0216	0.4081
69	23.78	-0.08	0.0469	0.0084	0.0374	0.1792	0.7980	0.9092	0.0200	0.3724	0.0220	0.4096
70	24.12	-0.08	0.0526	0.0086	0.0402	0.1641	0.7648	0.9157	0.0191	0.3722	0.0209	0.4064
71	24.42	-0.08	0.0494	0.0089	0.0396	0.1793	0.8008	0.9307	0.0185	0.3758	0.0198	0.4037
72	24.75	-0.09	0.0497	0.0086	0.0384	0.1721	0.7718	0.8975	0.0199	0.3688	0.0222	0.4109
73	25.04	-0.09	0.0484	0.0081	0.0372	0.1675	0.7692	0.9200	0.0188	0.3754	0.0205	0.4080
74	25.34	-0.08	0.0400	0.0070	0.0341	0.1745	0.8532	0.9016	0.0195	0.3693	0.0217	0.4096
75	25.61	-0.10	0.0540	0.0089	0.0407	0.1654	0.7536	0.9164	0.0187	0.3765	0.0204	0.4108
76	25.93	-0.08	0.0480	0.0087	0.0400	0.1814	0.8332	0.9367	0.0176	0.3842	0.0188	0.4101
77	26.23	-0.09	0.0484	0.0083	0.0384	0.1706	0.7940	0.9145	0.0184	0.3751	0.0201	0.4101
78	26.52	-0.08	0.0458	0.0078	0.0364	0.1704	0.7939	0.9338	0.0176	0.3836	0.0189	0.4108
79	26.84	-0.08	0.0515	0.0084	0.0408	0.1632	0.7915	0.9300	0.0179	0.3833	0.0193	0.4122
80	27.13	-0.09	0.0471	0.0085	0.0386	0.1800	0.8194	0.9400	0.0174	0.3835	0.0185	0.4079
81	27.45	-0.10	0.0515	0.0086	0.0408	0.1676	0.7915	0.9519	0.0167	0.3911	0.0175	0.4109
82	27.74	-0.09	0.0472	0.0086	0.0378	0.1813	0.8014	0.9515	0.0164	0.3916	0.0172	0.4116
83	28.05	-0.08	0.0519	0.0086	0.0385	0.1663	0.7417	0.9543	0.0163	0.3937	0.0171	0.4126
84	28.35	-0.09	0.0532	0.0090	0.0395	0.1693	0.7505	0.9622	0.0157	0.3967	0.0163	0.4122
85	28.67	-0.07	0.0565	0.0092	0.0396	0.1620	0.7014	0.9850	0.0149	0.4045	0.0151	0.4106
86	28.97	-0.03	0.0595	0.0084	0.0428	0.1413	0.7198	1.0008	0.0131	0.4133	0.0131	0.4130
87	29.35	-0.13	0.0558	0.0097	0.0438	0.1735	0.7848	1.0053	0.0128	0.4154	0.0128	0.4132

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	9	0.97	1.7	0.0	B2WOF13	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.77	-0.02	-0.4824	1.2793	0.0006	0.0811	-0.0220	0.2345	-2.6518	
2	-2.44	-0.05	-0.4217	1.1364	-0.0553	0.0944	-0.0250	0.2334	-2.6945	
3	-1.91	0.0	-0.3396	0.8353	-0.0620	0.0838	-0.0210	0.2429	-2.4601	
4	-1.29	-0.03	-0.1964	0.5389	-0.0399	0.1188	-0.0170	0.2400	-2.7442	
5	-0.73	-0.02	-0.0907	0.2689	0.0556	0.0132	-0.0200	0.2454	-2.9656	
6	-0.22	-0.03	-0.0069	-0.0943	0.0165	0.0639	-0.0210	0.2479	0.6290	
7	0.32	-0.06	0.0904	-0.2855	-0.0640	0.0636	-0.0180	0.2515	-3.1588	
8	0.83	-0.02	0.1882	-0.5164	0.0037	-0.0582	-0.0220	0.2521	-2.7443	
9	1.32	-0.04	0.2738	-0.8072	-0.0515	-0.0249	-0.0150	0.2516	-2.9486	
10	1.82	0.02	0.3600	-1.0179	0.1541	0.0203	-0.0180	0.2506	-2.8278	
11	2.31	-0.07	0.4611	-1.3145	-0.0659	0.0123	-0.0130	0.2522	-2.8506	
12	2.77	-0.06	0.5398	-1.5977	-0.0648	0.0807	-0.0130	0.2536	-2.9595	
13	3.26	-0.02	0.6780	-1.8881	0.0218	0.1435	-0.0150	0.2581	-2.7847	
14	3.71	-0.01	0.7305	-2.1016	-0.0162	0.0667	-0.0130	0.2573	-2.8769	
15	4.18	-0.04	0.8533	-2.5044	-0.0848	0.1867	-0.0190	0.2487	-2.9350	
16	4.61	-0.06	0.9403	-2.7622	0.0239	0.1315	-0.0180	0.2452	-2.9376	
17	5.08	-0.03	1.0536	-3.0738	0.0746	0.1195	-0.0150	0.2663	-2.9175	
18	5.51	-0.07	1.1707	-3.3798	-0.1061	0.1375	-0.0140	0.2686	-2.8869	
19	5.94	-0.05	1.2170	-3.5736	-0.1965	0.2251	-0.0110	0.2524	-2.9363	
20	6.40	-0.01	1.3608	-3.9109	-0.1216	0.2852	-0.0180	0.2551	-2.8739	
21	6.85	-0.06	1.4877	-4.1685	0.1848	-0.0907	-0.0140	0.2705	-2.8020	
22	7.29	-0.09	1.4774	-4.3751	-0.0048	0.1447	-0.0160	0.2562	-2.9613	
23	7.73	-0.01	1.6725	-4.7222	0.1414	-0.0240	-0.0100	0.2744	-2.8234	
24	8.16	-0.04	1.6888	-4.9320	-0.1306	0.2678	-0.0120	0.2633	-2.9204	
25	8.59	0.04	1.8479	-5.1747	0.0580	0.1798	-0.0140	0.2761	-2.8004	
26	9.00	-0.05	1.8935	-5.3735	0.1055	0.1683	-0.0150	0.2699	-2.8379	
27	9.38	-0.05	1.9219	-5.4914	-0.1731	0.2383	-0.0060	0.2479	-2.8572	
28	9.81	-0.09	2.0527	-5.7684	-0.1593	0.2660	-0.0160	0.2637	-2.8101	
29	10.21	-0.03	2.1244	-5.8598	0.0546	0.1685	-0.0150	0.2590	-2.7583	
30	10.61	-0.02	2.2001	-6.0808	0.0104	0.2134	-0.0190	0.2562	-2.7638	
31	10.99	-0.05	2.2656	-6.2454	-0.0236	0.0430	-0.0150	0.2591	-2.7787	
32	11.38	-0.07	2.3648	-6.4393	-0.1576	0.1356	-0.0160	0.2554	-2.7230	
33	11.72	-0.08	2.4187	-6.6347	-0.1831	0.3693	-0.0190	0.2564	-2.7431	
34	12.08	-0.06	2.5003	-6.7989	-0.0741	0.0377	-0.0220	0.2532	-2.7193	
35	12.46	-0.03	2.5987	-6.9627	0.0805	0.2103	-0.0230	0.2484	-2.6793	
36	12.79	-0.05	2.6658	-7.1480	-0.0350	0.1390	-0.0200	0.2482	-2.6816	
37	13.16	-0.03	2.7565	-7.3177	-0.0450	0.1280	-0.0210	0.2438	-2.6547	
38	13.52	-0.06	2.8143	-7.4566	-0.0297	0.1826	-0.0250	0.2359	-2.6495	
39	13.89	-0.03	2.8902	-7.6318	-0.0263	0.1348	-0.0160	0.2332	-2.6406	
40	14.23	-0.03	2.9778	-7.7575	-0.0227	0.3577	-0.0160	0.2309	-2.6051	
41	14.61	-0.06	3.0348	-7.7223	-0.0588	0.1833	-0.0240	0.2247	-2.5446	
42	14.93	-0.07	3.0920	-7.8943	-0.1568	0.4025	-0.0270	0.2262	-2.5531	
43	15.30	-0.05	3.1179	-7.8736	-0.1208	0.3001	-0.0230	0.2214	-2.5253	
44	15.62	-0.06	3.2102	-7.9488	-0.0527	0.2827	-0.0250	0.2163	-2.4761	
45	15.96	-0.05	3.2206	-7.9074	-0.0372	0.1541	-0.0310	0.2155	-2.4553	
46	16.29	-0.06	3.2893	-7.8416	-0.0588	0.4273	-0.0570	0.2106	-2.3840	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		9		0.97		1.7	U.O	B2WOF13	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAP	XCP				
47	16.63	-0.04	3.3254	-7.9981	-0.1321	0.2929	-0.0590	0.2113	-2.4052				
48	16.94	-0.07	3.3824	-8.0569	-0.0313	0.1728	-0.0740	0.2015	-2.5020				
49	20.62	-0.08	4.1717	-8.6439	-0.0650	0.0790	-0.1160	0.1731	-2.0721				
50	20.96	-0.08	4.1815	-8.6367	-0.2336	0.3500	-0.1370	0.1783	-2.0655				
51	21.25	-0.07	4.1301	-8.4247	-0.0420	0.1078	-0.1570	0.1777	-2.0399				
52	21.60	-0.07	4.1362	-8.1233	-0.0286	-0.2075	-0.2430	0.1951	-1.9640				
53	21.91	-0.07	4.3163	-8.5275	-0.0654	0.1815	-0.1680	0.1691	-1.9756				
54	22.24	-0.10	4.2127	-7.8976	0.0495	-0.3013	-0.2950	0.1914	-1.8747				
55	22.56	-0.06	4.1698	-7.7254	0.0665	-0.3006	-0.2690	0.1701	-1.8439				
56	22.83	-0.10	4.3364	-8.0168	-0.0139	-0.2585	-0.1530	0.1324	-1.8487				
57	23.20	-0.09	4.4453	-7.8912	0.0718	-0.3305	-0.2400	0.1492	-1.7752				
58	23.51	-0.08	4.4336	-7.7095	0.1917	-0.7583	-0.2210	0.1349	-1.7390				
59	23.83	-0.08	4.5885	-7.9497	0.1808	-0.4681	-0.1500	0.1210	-1.7325				
60	24.18	-0.10	4.5221	-7.6388	0.1785	-0.6878	-0.2210	0.1223	-1.6892				
61	24.48	-0.11	4.7328	-7.7867	0.2450	-0.5319	-0.1580	0.1060	-1.6453				
62	24.82	-0.10	4.7267	-7.4982	0.1471	-0.6749	-0.1100	0.0959	-1.5864				
63	25.12	-0.11	4.7819	-7.5585	0.0983	-0.4076	-0.0620	0.0981	-1.5807				
64	25.43	-0.06	5.0192	-7.5049	0.1929	-0.2040	-0.2650	0.0861	-1.4952				
65	25.73	-0.11	4.9097	-7.3735	0.1869	-0.5836	-0.1950	0.0814	-1.5018				
66	26.05	-0.07	5.0151	-6.9172	0.2553	-0.5683	-0.0480	0.0846	-1.3793				
67	26.33	-0.15	5.2852	-7.3683	0.2894	-0.7551	-0.1600	0.0592	-1.3941				
68	26.67	-0.05	5.2340	-6.9667	0.2580	-0.5491	-0.1460	0.0553	-1.3310				
69	26.95	-0.11	5.2907	-7.1260	0.0966	-0.4715	-0.2030	0.0538	-1.3469				
70	27.31	-0.10	5.3464	-6.4951	0.1728	-0.4189	-0.0840	0.0528	-1.2149				
71	27.60	-0.09	5.4893	-6.0151	0.1477	-0.4557	-0.1150	0.0481	-1.2051				
72	27.95	-0.06	5.6277	-6.3729	0.2087	-0.2951	-0.0690	0.0525	-1.1324				
73	28.25	-0.10	5.6871	-6.4251	0.2081	-0.4323	-0.0540	0.0374	-1.1298				
74	28.54	-0.06	5.7026	-6.2738	0.3063	-0.4958	-0.0470	0.0317	-1.1002				
75	28.88	-0.07	5.8409	-6.0736	0.2602	-0.4892	-0.0260	0.0247	-1.0398				
76	29.20	-0.06	6.0393	-6.2473	0.2643	-0.3140	-0.0580	0.0151	-1.0344				
77	29.53	-0.08	6.2031	-6.5856	0.1522	-0.5090	-0.1540	-0.0028	-1.0617				

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 9 0.97 1.7			0.0	B2W0F13	0.0	0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CHI	CB1	XCPI1	YCPI1	CNF2	CH2	CB2	XCPI2	YCPI2
1	-2.77	-0.02	-0.0150	-0.0008	-0.0189	0.0550	1.2599	-0.1892	-0.0288	-0.0863	0.1524	0.4559
2	-2.44	-0.05	-0.0031	-0.0017	-0.0105	0.5568	-3.5055	-0.1621	-0.0239	-0.0719	0.1473	0.4437
3	-1.91	0.0	-0.0161	-0.0003	-0.0165	0.0186	1.0227	-0.1281	-0.0188	-0.0577	0.1472	0.4504
4	-1.29	-0.03	-0.0073	-0.0007	-0.0128	-0.0525	1.7579	-0.0860	-0.0117	-0.0378	0.1361	0.4390
5	-0.73	-0.02	-0.0044	0.0011	-0.0111	-0.2388	2.5150	-0.0447	-0.0058	-0.0203	0.1293	0.4540
6	-0.22	-0.03	-0.0044	0.0011	-0.0112	-0.2388	2.5178	-0.0078	-0.0004	-0.0022	0.0481	0.2819
7	0.32	-0.06	-0.0060	0.0008	-0.0116	-0.1251	1.9332	0.0354	0.0057	0.0141	0.1611	0.3982
8	0.83	-0.02	0.0090	0.0025	-0.0078	0.2752	-0.8668	0.0703	0.0113	0.0316	0.1612	0.4499
9	1.32	-0.04	-0.0066	0.0001	-0.0129	-0.0114	1.9544	0.1050	0.0158	0.0445	0.1502	0.4238
10	1.82	-0.02	-0.0021	0.0011	-0.0076	0.5360	-3.6192	0.1393	0.0220	0.0626	0.1560	0.4496
11	2.31	-0.07	-0.0063	0.0007	-0.0099	-0.1072	1.5713	0.1764	0.0275	0.0765	0.1558	0.4336
12	2.77	-0.06	-0.0065	0.0015	-0.0065	0.2309	-1.0052	0.2210	0.0342	0.0965	0.1549	0.4364
13	3.26	-0.02	0.0074	0.0011	-0.0066	0.1420	-0.8965	0.2671	0.0403	0.1151	0.1509	0.4310
14	3.71	-0.01	0.0004	0.0008	-0.0070	2.0638	-17.4168	0.2928	0.0435	0.1262	0.1485	0.4310
15	4.18	-0.04	0.0030	0.0010	-0.0054	0.5292	-1.8001	0.3529	0.0436	0.1514	0.1406	0.4290
16	4.61	-0.06	-0.0028	0.0005	-0.0063	-0.1876	2.2618	0.3875	0.0526	0.1670	0.1358	0.4311
17	5.08	-0.03	-0.0056	0.0005	-0.0067	-0.0804	1.1904	0.4295	0.0555	0.1836	0.1292	0.4276
18	5.51	-0.07	-0.0120	0.0003	-0.0114	-0.0250	0.9499	0.4683	0.0579	0.2025	0.1242	0.4343
19	5.94	-0.05	-0.0083	0.0002	-0.0088	-0.0271	1.0561	0.5015	0.0597	0.2153	0.1190	0.4294
20	6.40	-0.01	-0.0097	0.0002	-0.0083	-0.0232	0.8590	0.5415	0.0604	0.2330	0.1115	0.4302
21	6.85	-0.06	-0.0036	-0.0002	-0.0061	0.0625	1.6443	0.5750	0.0608	0.2467	0.1058	0.4291
22	7.29	-0.09	-0.0106	-0.0005	-0.0062	0.0425	0.5879	0.6085	0.0613	0.2638	0.1008	0.4335
23	7.73	-0.01	-0.0116	-0.0003	-0.0081	0.0259	0.6953	0.6435	0.0618	0.2759	0.0960	0.4288
24	8.16	-0.04	-0.0153	-0.0003	-0.0118	0.0196	0.7711	0.6780	0.0619	0.2935	0.0913	0.4330
25	8.59	0.04	-0.0113	-0.0012	-0.0080	0.1063	0.7049	0.7116	0.0625	0.3082	0.0879	0.4330
26	9.00	-0.05	-0.0157	-0.0015	-0.0074	0.0956	0.4733	0.7404	0.0635	0.3191	0.0858	0.4309
27	9.32	-0.05	-0.0174	-0.0019	-0.0081	0.1078	0.4654	0.7597	0.0640	0.3281	0.0842	0.4319
28	9.81	-0.09	-0.0158	-0.0029	-0.0075	0.1805	0.4725	0.8036	0.0643	0.3481	0.0800	0.4332
29	10.21	-0.03	-0.0199	-0.0030	-0.0086	0.1508	0.4337	0.8117	0.0636	0.3503	0.0783	0.4316
30	10.61	-0.02	-0.0253	-0.0032	-0.0103	0.1246	0.4083	0.8480	0.0640	0.3670	0.0755	0.4328
31	10.99	-0.05	-0.0247	-0.0038	-0.0094	0.1519	0.3818	0.8716	0.0634	0.3766	0.0728	0.4321
32	11.38	-0.07	-0.0302	-0.0053	-0.0112	0.1739	0.3676	0.8869	0.0637	0.3845	0.0719	0.4335
33	11.72	-0.08	-0.0274	-0.0055	-0.0136	0.1999	0.4774	0.9198	0.0622	0.3980	0.0676	0.4327
34	12.08	-0.06	-0.0274	-0.0066	-0.0123	0.2410	0.4500	0.9446	0.0613	0.4093	0.0649	0.4333
35	12.46	-0.03	-0.0227	-0.0071	-0.0103	0.3141	0.4522	0.9673	0.0605	0.4165	0.0626	0.4305
36	12.79	-0.05	-0.0285	-0.0100	-0.0099	0.3502	0.3472	0.9815	0.0605	0.4237	0.0617	0.4317
37	13.16	-0.03	-0.0343	-0.0095	-0.0140	0.2757	0.4090	1.0122	0.0598	0.4340	0.0591	0.4288
38	13.52	-0.06	-0.0328	-0.0105	-0.0124	0.3203	0.3789	1.0218	0.0589	0.4362	0.0576	0.4265
39	13.89	-0.03	-0.0341	-0.0092	-0.0134	0.2707	0.3919	1.0481	0.0568	0.4418	0.0542	0.4272
40	14.23	-0.03	-0.0383	-0.0111	-0.0178	0.2900	0.4638	1.0508	0.0576	0.4462	0.0545	0.4222
41	14.61	-0.06	-0.0443	-0.0142	-0.0173	0.3202	0.3896	1.0559	0.0561	0.4441	0.0531	0.4206
42	14.93	-0.07	-0.0406	-0.0151	-0.0106	0.3715	0.2618	1.0766	0.0563	0.4570	0.0523	0.4245
43	15.30	-0.05	-0.0418	-0.0145	-0.0180	0.3405	0.4313	1.0602	0.0511	0.4363	0.0482	0.4115
44	15.62	-0.06	-0.0552	-0.0149	-0.0237	0.2692	0.4292	1.0714	0.0454	0.4319	0.0424	0.4032
45	15.96	-0.05	-0.0487	-0.0138	-0.0229	0.2835	0.4708	1.0808	0.0424	0.4362	0.0393	0.4036
46	16.29	-0.06	-0.0495	-0.0172	-0.0121	0.3472	0.2443	1.0899	0.0426	0.4411	0.0391	0.4047

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	9	0.97	1.7	0.0	0.82	WOF13	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.63	-0.34	-0.0596	-0.0147	-0.0208	0.2468	0.3483	1.1045	0.0409	0.4427	0.0371	0.4008
48	16.94	-0.37	-0.0616	-0.0149	-0.0285	0.2424	0.4631	1.2289	0.0218	0.4843	0.0177	0.3941
49	20.62	-0.38	-0.0470	-0.0077	-0.0311	0.1645	0.6609	1.2341	0.0158	0.4819	0.0128	0.3905
50	20.96	-0.38	-0.0685	-0.0167	-0.0323	0.2432	0.4719	1.2601	0.0165	0.4953	0.0131	0.3931
51	21.25	-0.37	-0.0627	-0.0115	-0.0349	0.1831	0.5565	1.2421	0.0122	0.4854	0.0099	0.3908
52	21.60	-0.37	-0.0434	-0.0127	-0.0245	0.2922	0.5636	1.2918	0.0133	0.5017	0.0103	0.3884
53	21.91	-0.37	-0.0651	-0.0141	-0.0384	0.2167	0.5897	1.2767	0.0105	0.4984	0.0082	0.3903
54	22.24	-0.10	-0.0583	-0.0225	-0.0201	0.3849	0.3452	1.3387	0.0127	0.5280	0.0095	0.3944
55	22.56	-0.06	-0.0369	-0.0168	-0.0234	0.4556	0.6340	1.3082	0.0091	0.5126	0.0069	0.3918
56	22.83	-0.10	-0.0035	-0.0033	-0.0225	0.9434	6.4189	1.2684	0.0068	0.4911	0.0054	0.3872
57	23.20	-0.09	-0.0079	-0.0095	-0.0179	1.2064	2.2699	1.3153	0.0059	0.5089	0.0045	0.3869
58	23.51	-0.08	0.0339	-0.0023	-0.0048	-0.0686	-0.1417	1.2912	0.0059	0.4981	0.0046	0.3858
59	23.83	-0.08	0.0370	0.0005	-0.0062	0.0142	-0.1668	1.2733	0.0062	0.4897	0.0048	0.3846
60	24.18	-0.10	0.0214	-0.0058	-0.0113	-0.2700	-0.5266	1.3130	0.0046	0.5082	0.0035	0.3870
61	24.48	-0.11	0.0180	-0.0026	-0.0122	-0.1459	-0.6779	1.2528	0.0068	0.4818	0.0055	0.3846
62	24.82	-0.10	0.0678	0.0025	0.0038	0.0365	0.0559	1.2446	0.0065	0.4784	0.0052	0.3844
63	25.12	-0.11	0.0365	-0.0001	-0.0070	-0.0021	-0.1928	1.1958	0.0086	0.4566	0.0072	0.3818
64	25.43	-0.06	-0.0656	-0.0155	-0.0461	0.2368	0.7021	1.3251	0.0022	0.5180	0.0016	0.3909
65	25.73	-0.11	-0.0386	-0.0124	-0.0340	0.3206	1.0094	1.2872	0.0041	0.4939	0.0032	0.3837
66	26.05	-0.07	0.1022	0.0062	0.0299	0.0610	0.2931	1.1212	0.0115	0.4202	0.0102	0.3748
67	26.33	-0.15	0.0877	0.0021	0.0241	0.0240	0.2751	1.2687	0.0052	0.4786	0.0041	0.3772
68	26.67	-0.05	0.0196	-0.0035	-0.0049	-0.1800	-0.5035	1.2360	0.0062	0.4677	0.0050	0.3784
69	26.95	-0.11	-0.0034	-0.0058	-0.0222	1.6996	6.5391	1.2892	0.0034	0.4950	0.0026	0.3840
70	27.31	-0.10	0.0577	-0.0008	0.0125	-0.0143	0.2171	1.1624	0.0085	0.4430	0.0073	0.3811
71	27.60	-0.09	0.0528	-0.0010	0.0071	-0.0185	0.1344	1.1904	0.0080	0.4461	0.0067	0.3747
72	27.95	-0.06	0.0378	-0.0027	-0.0059	-0.0715	-0.1562	1.1967	0.0065	0.4578	0.0055	0.3825
73	28.25	-0.10	0.0977	0.0016	0.0268	0.0161	0.2748	1.1592	0.0083	0.4361	0.0071	0.3762
74	28.54	-0.06	0.1139	0.0038	0.0345	0.0336	0.3069	1.1359	0.0073	0.4268	0.0082	0.3758
75	28.88	-0.07	0.1105	0.0020	0.0323	0.0177	0.2925	1.1419	0.0082	0.4333	0.0072	0.3795
76	29.20	-0.06	0.0786	0.0002	0.0226	0.0619	0.2874	1.1798	0.0066	0.4470	0.0056	0.3788
77	29.53	-0.08	0.0503	-0.0023	0.0028	-0.0448	0.0549	1.2342	0.0041	0.4632	0.0033	0.3753

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		9.97	1.7	0.0	0.0	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.77	-0.02	0.0052	0.0023	0.0090	0.4330	1.7171	-0.2260	-0.0291	-0.0697	0.1289	0.3084
2	-2.44	-0.05	0.0130	0.0032	0.0116	0.2482	0.8348	-0.2050	-0.0258	-0.0602	0.1260	0.2937
3	-1.91	0.0	0.0023	0.0022	0.0092	0.9462	3.9654	-0.1610	-0.0203	-0.0403	0.1259	0.2506
4	-1.29	-0.03	0.0063	0.0026	0.0102	0.4050	1.6189	-0.1165	-0.0138	-0.0203	0.1186	0.1743
5	-0.73	-0.02	0.0184	0.0036	0.0137	0.1958	0.7463	-0.0783	-0.0086	-0.0022	0.1093	0.0280
6	-0.22	-0.03	0.0143	0.0034	0.0130	0.2362	0.9066	-0.0392	-0.0038	0.0128	0.0976	-0.3275
7	0.32	-0.06	0.0130	0.0030	0.0128	0.2309	0.9871	0.0071	0.0025	0.0340	0.3488	4.7839
8	0.83	-0.02	0.0210	0.0042	0.0144	0.2001	0.6856	0.0404	0.0063	0.0408	0.1560	1.1575
9	1.32	-0.04	0.0145	0.0033	0.0114	0.2277	0.7884	0.0824	0.0122	0.0667	0.1485	0.8089
10	1.82	0.02	0.0159	0.0029	0.0125	0.1794	0.7860	0.1143	0.0165	0.0801	0.1446	0.7010
11	2.31	-0.07	0.0152	0.0038	0.0161	0.2518	1.0569	0.1579	0.0227	0.0996	0.1436	0.6311
12	2.77	-0.06	0.0196	0.0041	0.0145	0.2106	0.7414	0.1955	0.0282	0.1157	0.1440	0.5517
13	3.26	-0.02	0.0195	0.0041	0.0149	0.2117	0.7640	0.2433	0.0342	0.1362	0.1404	0.5598
14	3.71	-0.01	0.0246	0.0049	0.0180	0.1983	0.7316	0.2798	0.0384	0.1511	0.1372	0.5403
15	4.18	-0.04	0.0245	0.0052	0.0180	0.2114	0.7332	0.3217	0.0426	0.1704	0.1326	0.5298
16	4.61	-0.06	0.0245	0.0051	0.0180	0.2083	0.7332	0.3664	0.0465	0.1887	0.1269	0.5151
17	5.08	-0.03	0.0270	0.0056	0.0189	0.2085	0.6999	0.4093	0.0492	0.2097	0.1202	0.5124
18	5.51	-0.07	0.0186	0.0053	0.0186	0.2824	0.9999	0.4526	0.0516	0.2310	0.1140	0.5103
19	5.94	-0.05	0.0188	0.0052	0.0174	0.2754	0.9236	0.4879	0.0526	0.2442	0.1079	0.5006
20	6.40	-0.01	0.0225	0.0055	0.0201	0.2635	0.8932	0.5225	0.0532	0.2620	0.1019	0.5015
21	6.85	-0.06	0.0291	0.0065	0.0224	0.2218	0.7696	0.5553	0.0536	0.2801	0.0965	0.5044
22	7.29	-0.09	0.0274	0.0066	0.0235	0.2410	0.8588	0.5958	0.0535	0.2953	0.0899	0.4956
23	7.73	-0.01	0.0247	0.0066	0.0228	0.2674	0.9243	0.6339	0.0539	0.3156	0.0850	0.4978
24	8.16	-0.04	0.0224	0.0059	0.0201	0.2647	0.8957	0.6707	0.0535	0.3293	0.0797	0.4911
25	8.59	0.04	0.0223	0.0061	0.0201	0.2726	0.9027	0.6951	0.0538	0.3412	0.0773	0.4908
26	9.00	-0.05	0.0273	0.0071	0.0228	0.2584	0.8350	0.7336	0.0539	0.3576	0.0735	0.4875
27	9.38	-0.05	0.0236	0.0060	0.0215	0.2544	0.9095	0.7495	0.0544	0.3672	0.0726	0.4899
28	9.81	-0.09	0.0236	0.0061	0.0215	0.2576	0.9095	0.7785	0.0553	0.3801	0.0710	0.4882
29	10.21	-0.03	0.0271	0.0071	0.0245	0.2603	0.9052	0.8055	0.0552	0.3908	0.0685	0.4851
30	10.61	-0.02	0.0248	0.0063	0.0228	0.2542	0.9179	0.8370	0.0556	0.4052	0.0664	0.4841
31	10.99	-0.05	0.0311	0.0075	0.0258	0.2413	0.8284	0.8593	0.0552	0.4170	0.0642	0.4853
32	11.38	-0.07	0.0313	0.0071	0.0255	0.2254	0.8156	0.8794	0.0559	0.4252	0.0635	0.4835
33	11.72	-0.08	0.0315	0.0068	0.0248	0.2168	0.7872	0.9082	0.0546	0.4388	0.0601	0.4832
34	12.08	-0.06	0.0351	0.0080	0.0268	0.2288	0.7634	0.9273	0.0550	0.4471	0.0594	0.4821
35	12.46	-0.03	0.0311	0.0071	0.0266	0.2242	0.8541	0.9525	0.0547	0.4583	0.0575	0.4811
36	12.79	-0.05	0.0407	0.0076	0.0287	0.1862	0.7042	0.9720	0.0541	0.4647	0.0557	0.4780
37	13.16	-0.03	0.0325	0.0068	0.0278	0.2101	0.8563	1.0061	0.0505	0.4785	0.0502	0.4756
38	13.52	-0.06	0.0355	0.0066	0.0277	0.1860	0.7811	1.0199	0.0499	0.4825	0.0489	0.4731
39	13.89	-0.03	0.0365	0.0070	0.0299	0.1912	0.8181	1.0454	0.0481	0.4936	0.0460	0.4722
40	14.23	-0.03	0.0312	0.0064	0.0283	0.2045	0.9069	1.0596	0.0481	0.4992	0.0454	0.4712
41	14.61	-0.06	0.0389	0.0076	0.0321	0.1949	0.8242	1.0666	0.0493	0.4925	0.0463	0.4617
42	14.93	-0.07	0.0369	0.0065	0.0292	0.1769	0.7912	1.0833	0.0486	0.4971	0.0448	0.4589
43	15.30	-0.05	0.0405	0.0071	0.0329	0.1742	0.8122	1.0694	0.0460	0.4861	0.0430	0.4566
44	15.62	-0.06	0.0415	0.0080	0.0332	0.1935	0.8007	1.0834	0.0439	0.4907	0.0405	0.4529
45	15.96	-0.05	0.0377	0.0074	0.0312	0.1571	0.8266	1.0704	0.0394	0.4782	0.0368	0.4468
46	16.29	-0.06	0.0363	0.0074	0.0314	0.2047	0.8649	1.0535	0.0334	0.4610	0.0317	0.4376

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	9.0-97	1.7	0.0	B2WDF13	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	16.63	-0.04	0.0339	0.0065	0.0312	0.1926	0.9202	1.0593	0.0316	0.4675	0.0298	0.4414
48	16.94	-0.07	0.0373	0.0076	0.0351	0.2032	0.9418	1.1018	0.0137	0.4799	0.0124	0.4356
49	20.62	-0.08	0.0445	0.0095	0.0416	0.2125	0.9332	1.1248	0.0110	0.4898	0.0097	0.4354
50	20.96	-0.08	0.0425	0.0083	0.0386	0.1960	0.9073	1.0451	0.0133	0.4600	0.0127	0.4402
51	21.25	-0.07	0.0503	0.0093	0.0411	0.1850	0.8163	1.0877	0.0121	0.4640	0.0111	0.4266
52	21.60	-0.07	0.0522	0.0107	0.0455	0.2041	0.8715	0.9958	0.0150	0.4259	0.0151	0.4277
53	21.91	-0.07	0.0435	0.0089	0.0394	0.2053	0.9056	1.0117	0.0134	0.4521	0.0132	0.4469
54	22.24	-0.10	0.0513	0.0096	0.0443	0.1873	0.8634	0.8939	0.0185	0.3854	0.0207	0.4312
55	22.56	-0.06	0.0419	0.0092	0.0405	0.2203	0.9752	0.9082	0.0179	0.3896	0.0198	0.4290
56	22.83	-0.10	0.0495	0.0107	0.0450	0.2153	0.9090	1.0140	0.0131	0.4424	0.0130	0.4363
57	23.20	-0.09	0.0512	0.0103	0.0444	0.2008	0.8664	0.9310	0.0164	0.4014	0.0177	0.4311
58	23.51	-0.08	0.0602	0.0116	0.0491	0.1932	0.8149	0.9447	0.0155	0.4074	0.0163	0.4290
59	23.83	-0.08	0.0579	0.0107	0.0476	0.1853	0.8220	1.0207	0.0125	0.4423	0.0123	0.4333
60	24.18	-0.10	0.0502	0.0098	0.0424	0.1958	0.8432	0.9571	0.0153	0.4095	0.0160	0.4278
61	24.48	-0.11	0.0567	0.0105	0.0462	0.1853	0.8147	1.0286	0.0119	0.4412	0.0115	0.4289
62	24.82	-0.10	0.0506	0.0112	0.0470	0.2210	0.9281	1.0055	0.0126	0.4335	0.0125	0.4311
63	25.12	-0.11	0.0616	0.0113	0.0496	0.1840	0.8040	1.0182	0.0111	0.4481	0.0109	0.4401
64	25.43	-0.06	0.0521	0.0104	0.0475	0.1988	0.9109	0.9609	0.0140	0.4111	0.0145	0.4279
65	25.73	-0.11	0.0495	0.0104	0.0466	0.2042	0.9413	0.9444	0.0139	0.4119	0.0147	0.4362
66	26.05	-0.07	0.0604	0.0116	0.0492	0.1913	0.8133	0.9882	0.0118	0.4310	0.0119	0.4361
67	26.33	-0.15	0.0628	0.0123	0.0512	0.1940	0.8141	0.9869	0.0118	0.4304	0.0119	0.4361
68	26.67	-0.05	0.0561	0.0115	0.0505	0.2047	0.9001	0.9749	0.0123	0.4247	0.0126	0.4356
69	26.95	-0.11	0.0443	0.0101	0.0444	0.2270	1.0014	0.9671	0.0129	0.4217	0.0134	0.4360
70	27.31	-0.10	0.0551	0.0111	0.0472	0.2016	0.8559	0.9771	0.0119	0.4272	0.0122	0.4372
71	27.60	-0.09	0.0644	0.0119	0.0516	0.1841	0.8006	0.9836	0.0112	0.4308	0.0114	0.4380
72	27.95	-0.06	0.0593	0.0110	0.0486	0.1860	0.8189	1.0030	0.0106	0.4383	0.0106	0.4370
73	28.25	-0.10	0.0660	0.0120	0.0530	0.1876	0.8270	1.0145	0.0096	0.4446	0.0095	0.4383
74	28.54	-0.06	0.0745	0.0134	0.0575	0.1793	0.7708	1.0153	0.0095	0.4442	0.0093	0.4375
75	28.88	-0.07	0.0718	0.0128	0.0553	0.1777	0.7691	1.0321	0.0082	0.4525	0.0079	0.4384
76	29.20	-0.06	0.0611	0.0115	0.0520	0.1879	0.8504	1.0312	0.0082	0.4531	0.0079	0.4394
77	29.53	-0.08	0.0766	0.0133	0.0601	0.1734	0.7836	1.0134	0.0086	0.4480	0.0085	0.4421

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 10 1.01 1.7 0.0 82WDF13 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	-2.77	0.02	-0.4735	1.3609	-0.0385	0.0239	-0.0160	0.3306	-2.8738
2	-2.57	0.0	-0.4535	1.2299	-0.1105	0.0127	-0.0190	0.3335	-2.7117
3	-2.00	0.0	-0.3186	0.8899	-0.0055	-0.0253	-0.0160	0.3317	-2.7936
4	-1.37	-0.01	-0.2253	0.6323	-0.0627	0.0338	-0.0180	0.3299	-2.8070
5	-0.83	0.02	-0.1209	0.3122	-0.0478	0.0665	-0.0200	0.3292	-2.5828
6	-0.28	0.01	-0.0189	-0.0015	-0.0718	0.0065	-0.0190	0.3279	-0.0815
7	0.24	0.03	0.1003	-0.2934	0.0335	0.0831	-0.0180	0.3279	-2.9254
8	0.76	0.0	0.1785	-0.4918	-0.0508	0.0401	-0.0130	0.3250	-2.7557
9	1.24	0.0	0.2946	-0.8363	-0.0311	-0.0025	-0.0170	0.3211	-2.8392
10	1.76	0.02	0.4118	-1.1415	-0.0543	0.0750	-0.0140	0.3262	-2.7717
11	2.22	0.01	0.4890	-1.3726	-0.0661	0.0665	-0.0120	0.3271	-2.3067
12	2.72	0.03	0.5792	-1.6108	0.0602	-0.0043	-0.0100	0.3317	-2.7810
13	3.19	0.02	0.6476	-1.8465	-0.0085	0.0429	-0.0070	0.3416	-2.8513
14	3.64	0.02	0.7657	-2.2078	-0.0497	0.1166	-0.0130	0.3349	-2.8834
15	4.11	0.01	0.8688	-2.4431	-0.0124	0.0194	-0.0150	0.3271	-2.8121
16	4.55	0.02	0.9666	-2.7210	0.0201	0.1318	-0.0190	0.3215	-2.8151
17	5.02	0.01	1.0582	-3.0772	-0.1715	0.2331	-0.0130	0.3115	-2.9081
18	5.45	0.04	1.1376	-3.2594	-0.0199	0.0289	-0.0170	0.2966	-2.8652
19	5.89	0.01	1.2680	-3.6520	-0.0479	0.1270	-0.0160	0.3048	-2.8800
20	6.80	0.0	1.5692	-4.1696	-0.1246	0.1264	-0.0140	0.3137	-2.8340
21	7.23	-0.01	1.5223	-4.3459	-0.0605	0.0697	-0.0120	0.3102	-2.8548
22	7.67	0.02	1.5901	-4.6098	-0.0688	0.2243	-0.0090	0.3145	-2.8991
23	8.11	0.02	1.7016	-4.8139	-0.0786	0.1560	-0.0130	0.3341	-2.8291
24	9.32	-0.03	1.9919	-5.5234	-0.0982	0.1765	-0.0130	0.3207	-2.7729
25	9.75	-0.01	2.0684	-5.7124	-0.0227	0.1958	-0.0110	0.3089	-2.7617
26	10.13	-0.04	2.1342	-5.8805	0.0383	0.1614	-0.0170	0.3074	-2.7554
27	10.55	-0.03	2.2344	-6.0898	-0.1361	0.1765	-0.0130	0.3015	-2.7255
28	10.93	-0.01	2.2865	-6.2647	-0.1180	0.2382	-0.0200	0.3032	-2.7399
29	11.33	0.02	2.4317	-6.4590	-0.0619	0.1816	-0.0180	0.3013	-2.6582
30	11.68	0.0	2.4660	-6.6150	-0.0224	0.1343	-0.0180	0.3009	-2.6825
31	12.05	0.01	2.5701	-6.7937	-0.0207	0.3479	-0.0150	0.3017	-2.6434
32	12.41	-0.02	2.6247	-6.9441	-0.1506	0.1948	-0.0210	0.3184	-2.6457
33	12.75	-0.01	2.6937	-7.0628	-0.1659	0.2792	-0.0220	0.3285	-2.6219
34	13.12	0.03	2.7764	-7.2016	0.0127	0.2672	-0.0290	0.3227	-2.5938
35	13.47	-0.02	2.8464	-7.3316	-0.0280	0.1862	-0.0280	0.3214	-2.5757
36	13.83	-0.01	2.9517	-7.5719	-0.0046	0.2535	-0.0170	0.3127	-2.5653
37	14.17	-0.04	3.0174	-7.7099	-0.1598	0.3717	-0.0190	0.3138	-2.5551
38	14.55	-0.03	3.1399	-7.8914	-0.1010	0.3244	-0.0170	0.3114	-2.5133
39	14.88	-0.04	3.1896	-8.0020	-0.0372	0.2850	-0.0280	0.3048	-2.5088
40	15.24	-0.01	3.2619	-8.1392	0.0461	0.2614	-0.0320	0.3028	-2.4952
41	15.57	-0.05	3.3355	-8.2672	-0.0506	0.3258	-0.0410	0.2980	-2.4786
42	15.90	-0.01	3.3480	-8.3397	-0.1381	0.4813	-0.0200	0.2910	-2.4910
43	16.23	-0.04	3.4918	-8.4371	-0.1345	0.3273	-0.0310	0.2940	-2.4762
44	16.58	-0.01	3.5463	-8.5514	-0.0152	0.4062	-0.0440	0.2847	-2.4113
45	16.90	-0.02	3.5966	-8.6018	-0.0134	0.2637	-0.0530	0.2861	-2.3916
46	17.22	-0.03	3.6681	-8.5929	-0.1027	0.3097	-0.0670	0.2855	-2.3426

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			10	1.01	1.7	0.0	B2WOF13	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	17.56	-0.03	3.7447	-8.6461	-0.0616	0.2302	-0.0790	0.2871	-2.3089			
48	17.89	-0.06	3.7613	-8.5594	-0.1810	0.4093	-0.0410	0.2912	-2.2756			
49	18.24	-0.06	3.8562	-8.5653	-0.1397	0.3155	-0.0630	0.2804	-2.2212			
50	18.57	-0.04	3.9040	-8.5662	-0.0824	0.4453	-0.0740	0.2833	-2.1947			
51	18.93	-0.03	3.9718	-8.5861	-0.1324	0.3153	-0.0840	0.2727	-2.1618			
52	19.23	-0.06	4.0259	-8.6718	-0.0981	0.2663	-0.0900	0.2735	-2.1540			
53	19.55	-0.07	4.1225	-8.7001	-0.1694	0.5041	-0.0950	0.2645	-2.1104			
54	19.90	-0.04	4.1644	-8.7597	-0.0489	0.3204	-0.0970	0.2507	-2.1035			
55	20.21	0.0	4.2100	-8.8547	0.0492	0.3811	-0.1030	0.2434	-2.1032			
56	20.57	-0.04	4.3264	-8.9056	-0.0881	0.2103	-0.0970	0.2337	-2.0593			
57	20.91	-0.06	4.4294	-8.9278	-0.0716	0.3052	-0.0950	0.2228	-2.0156			
58	21.25	-0.06	4.4899	-9.0175	-0.1896	0.2824	-0.0880	0.2329	-2.0084			
59	21.57	-0.05	4.6037	-9.0748	-0.0456	0.4364	-0.1220	0.2287	-1.9712			
60	21.89	-0.05	4.6671	-9.0546	0.0192	0.3041	-0.1090	0.2318	-1.9401			
61	22.20	-0.06	4.7524	-9.1170	0.0045	0.1527	-0.1020	0.2336	-1.9184			
62	22.52	-0.06	4.8050	-9.0477	0.0278	0.3800	-0.1190	0.2249	-1.8830			

PAGE 2 OF 4
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	10	1.01	1.7	0.0	0.2	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.77	0.02	0.0168	0.0006	-0.0246	0.0357	-1.4644	-0.1992	-0.0279	-0.0950	0.1402	0.4769
2	-2.57	0.0	0.0208	0.0007	-0.0246	0.0325	-1.1312	-0.1733	-0.0241	-0.0842	0.1391	0.4856
3	-2.00	0.0	0.0419	0.0025	-0.0159	0.0681	-0.3804	-0.1286	-0.0177	-0.0636	0.1378	0.4943
4	-1.37	-0.01	0.0303	0.0016	-0.0190	0.0520	-0.6272	-0.0932	-0.0131	-0.0491	0.1403	0.5276
5	-0.53	0.02	0.0179	0.0007	-0.0222	0.0377	-1.2422	-0.0416	-0.0056	-0.0253	0.1353	0.6073
6	-0.28	0.01	0.0209	0.0014	-0.0192	0.0682	-0.9204	-0.0042	-0.0010	-0.0097	0.2323	2.3094
7	0.24	0.03	0.0208	0.0014	-0.0179	0.0686	-0.8591	0.0444	0.0050	0.0099	0.1116	0.2229
8	0.76	0.0	0.0176	0.0011	-0.0167	0.0640	-0.9509	0.0714	0.0086	0.0247	0.1209	0.3458
9	1.24	0.0	0.0124	0.0011	-0.0175	0.0847	-1.4387	0.1137	0.0140	0.0430	0.1229	0.3781
10	1.76	0.02	0.0163	0.0012	-0.0164	0.0737	-1.0042	0.1604	0.0208	0.0635	0.1283	0.3962
11	2.22	0.01	0.0126	0.0014	-0.0162	0.1132	-1.2858	0.1948	0.0246	0.0756	0.1260	0.3882
12	2.72	0.03	0.0186	0.0010	-0.0159	0.0525	-0.8550	0.2323	0.0293	0.0920	0.1260	0.3961
13	3.19	0.02	0.0295	0.0020	-0.0114	0.0661	-0.3854	0.2682	0.0334	0.1075	0.1246	0.4007
14	3.64	0.02	0.0122	0.0008	-0.0181	0.0677	-1.4865	0.3143	0.0374	0.1257	0.1190	0.4001
15	4.11	0.01	0.0281	0.0017	-0.0110	0.0588	-0.3928	0.3520	0.0411	0.1441	0.1167	0.4094
16	4.55	0.02	0.0201	0.0008	-0.0169	0.0411	-0.8409	0.3849	0.0443	0.1580	0.1151	0.4104
17	5.02	0.01	0.0137	0.0010	-0.0173	0.0712	-1.2653	0.4325	0.0475	0.1780	0.1099	0.4116
18	5.45	0.04	0.0164	0.0009	-0.0179	0.0549	-0.4936	0.4692	0.0494	0.1969	0.1053	0.4196
19	5.89	0.01	0.0134	-0.0001	-0.0015	-0.0056	-0.1145	0.0015	-0.0002	-0.0004	-0.1001	-0.2668
20	6.80	0.0	0.0153	0.0008	-0.0201	0.0540	-1.3138	0.5884	0.0526	0.2473	0.0893	0.4203
21	7.23	-0.01	0.0253	0.0007	-0.0162	0.0257	-0.6391	0.6174	0.0528	0.2608	0.0855	0.4223
22	7.67	0.02	0.0286	0.0006	-0.0127	0.0210	-0.4430	0.6521	0.0533	0.2778	0.0818	0.4260
23	8.11	0.02	0.0145	0.0005	-0.0163	0.0362	-1.1220	0.6749	0.0532	0.2882	0.0788	0.4271
24	9.32	-0.03	0.0069	-0.0001	-0.0140	-0.0109	-2.0291	0.7767	0.0517	0.3299	0.0666	0.4247
25	9.75	-0.01	0.0096	-0.0006	-0.0081	-0.0625	-0.8439	0.8030	0.0514	0.3420	0.0640	0.4259
26	10.13	-0.04	0.0003	-0.0008	-0.0099	-2.7517	-33.0001	0.8304	0.0508	0.3543	0.0611	0.4267
27	10.55	-0.03	-0.0032	-0.0017	-0.0106	0.5394	3.3020	0.8481	0.0509	0.3637	0.0600	0.4289
28	10.93	-0.01	-0.0081	-0.0016	-0.0126	0.1946	1.5801	0.8801	0.0502	0.3773	0.0571	0.4287
29	11.33	0.02	-0.0134	-0.0030	-0.0145	0.2240	1.0795	0.9098	0.0493	0.3872	0.0541	0.4256
30	11.88	0.0	-0.0088	-0.0033	-0.0111	0.3752	1.2650	0.9490	0.0490	0.3993	0.0527	0.4301
31	12.05	0.01	-0.0086	-0.0043	-0.0100	0.4474	1.1588	0.9543	0.0480	0.4099	0.0503	0.4296
32	12.41	-0.02	-0.0186	-0.0043	-0.0156	0.2300	0.8386	0.9800	0.0469	0.4200	0.0478	0.4266
33	12.75	-0.01	-0.0212	-0.0050	-0.0156	0.2620	0.7342	1.0032	0.0459	0.4258	0.0457	0.4245
34	13.12	0.03	-0.0381	-0.0059	-0.0194	0.1556	0.5091	1.0201	0.0455	0.4339	0.0446	0.4254
35	13.47	-0.02	-0.0270	-0.0073	-0.0181	0.2619	0.6498	1.0375	0.0447	0.4400	0.0431	0.4241
36	13.83	-0.01	-0.0208	-0.0076	-0.0134	0.3644	0.6457	1.0631	0.0423	0.4527	0.0398	0.4258
37	14.17	-0.04	-0.0378	-0.0093	-0.0183	0.2462	0.4840	1.0840	0.0416	0.4576	0.0384	0.4221
38	14.55	-0.03	-0.0284	-0.0086	-0.0156	0.3092	0.5480	1.1052	0.0398	0.4609	0.0360	0.4243
39	14.88	-0.04	-0.0370	-0.0088	-0.0206	0.2373	0.5575	1.1243	0.0393	0.4759	0.0350	0.4233
40	15.24	-0.01	-0.0475	-0.0104	-0.0235	0.2196	0.4953	1.1423	0.0386	0.4823	0.0338	0.4222
41	15.57	-0.05	-0.0535	-0.0112	-0.0241	0.2090	0.4510	1.1643	0.0390	0.4883	0.0335	0.4194
42	15.90	-0.01	-0.0526	-0.0147	-0.0182	0.2796	0.3465	1.1777	0.0389	0.4918	0.0330	0.4176
43	16.23	-0.04	-0.0602	-0.0152	-0.0255	0.2531	0.4229	1.1923	0.0383	0.4997	0.0321	0.4191
44	16.58	-0.01	-0.0586	-0.0142	-0.0295	0.2420	0.5039	1.2159	0.0382	0.5052	0.0314	0.4155
45	16.90	-0.02	-0.0640	-0.0141	-0.0380	0.2204	0.5942	1.2241	0.0378	0.5078	0.0309	0.4149
46	17.22	-0.03	-0.0665	-0.0156	-0.0313	0.2347	0.4701	1.2437	0.0372	0.5131	0.0299	0.4125

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		10		1.01		1.7	0.0	B2WOF13	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CU1	XCPF1	YCPF1	CNF2	CH2	CU2	XCPF2	YCPF2	
47	17.56	-0.03	-0.0784	-0.0167	-0.0383	0.2125	0.4388	1.2551	0.0365	0.5183	0.0291	0.4129	
48	17.89	-0.06	-0.0688	-0.0161	-0.0372	0.2345	0.5411	1.2282	0.0337	0.4903	0.0275	0.3992	
49	18.24	-0.06	-0.0827	-0.0185	-0.0401	0.2241	0.4844	1.2331	0.0316	0.4917	0.0256	0.3988	
50	18.57	-0.04	-0.0900	-0.0194	-0.0416	0.2151	0.4621	1.2502	0.0305	0.4959	0.0244	0.3967	
51	18.93	-0.03	-0.0790	-0.0147	-0.0474	0.1862	0.6003	1.2619	0.0280	0.4998	0.0222	0.3961	
52	19.23	-0.06	-0.0783	-0.0129	-0.0484	0.1649	0.6180	1.2750	0.0270	0.5032	0.0212	0.3947	
53	19.55	-0.07	-0.0927	-0.0158	-0.0532	0.1710	0.5740	1.2866	0.0258	0.5076	0.0200	0.3945	
54	19.90	-0.04	-0.0941	-0.0149	-0.0552	0.1589	0.5364	1.2925	0.0235	0.5081	0.0182	0.3931	
55	20.21	0.0	-0.1045	-0.0185	-0.0576	0.1776	0.5459	1.2987	0.0228	0.5113	0.0176	0.3937	
56	20.57	-0.04	-0.0810	-0.0119	-0.0537	0.1473	0.6628	1.3205	0.0195	0.5148	0.0148	0.3898	
57	20.91	-0.06	-0.0752	-0.0110	-0.0502	0.1467	0.6670	1.3284	0.0185	0.5197	0.0139	0.3912	
58	21.25	-0.06	-0.0665	-0.0101	-0.0498	0.1524	0.7483	1.3391	0.0168	0.5235	0.0126	0.3909	
59	21.57	-0.05	-0.1022	-0.0173	-0.0564	0.1698	0.5516	1.3560	0.0174	0.5300	0.0128	0.3908	
60	21.89	-0.05	-0.0621	-0.0100	-0.0516	0.1607	0.8308	1.3628	0.0137	0.5326	0.0100	0.3908	
61	22.20	-0.06	-0.0528	-0.0074	-0.0501	0.1393	0.9487	1.3765	0.0127	0.5344	0.0092	0.3882	
62	22.52	-0.06	-0.0863	-0.0159	-0.0521	0.1844	0.6032	1.3755	0.0127	0.5379	0.0092	0.3910	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 10 1.01 1.7			0.0	B2NOF13	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.77	0.02	-0.0012	0.0022	0.0140	-1.8136	-11.6668	-0.2655	-0.0276	-0.0648	0.1041	0.2439
2	-2.57	0.0	0.0003	0.0023	0.0126	7.7548	41.9999	-0.2436	-0.0245	-0.0568	0.1005	0.2330
3	-2.00	0.0	0.0040	0.0032	0.0136	0.7880	3.4382	-0.2070	-0.0197	-0.0408	0.0950	0.1969
4	-1.37	-0.01	0.0012	0.0029	0.0146	2.4390	12.1665	-0.1605	-0.0148	-0.0239	0.0922	0.1487
5	-0.83	0.02	-0.0002	0.0030	0.0147	-15.0043	-73.6667	-0.1064	-0.0086	-0.0016	0.0812	0.0152
6	-0.28	0.01	0.0138	0.0045	0.0193	0.3263	1.3984	-0.0641	-0.0034	0.0187	0.0927	-0.2908
7	0.24	0.03	0.0050	0.0036	0.0156	0.7204	3.1132	-0.0229	0.0020	0.0374	-0.0852	-1.6319
8	0.76	0.0	-0.0038	0.0020	0.0120	-0.6715	-3.1668	0.0090	0.0056	0.0511	0.6254	5.6777
9	1.24	0.0	0.0059	0.0043	0.0168	0.7250	2.8417	0.0575	0.0114	0.0721	0.1984	1.2532
10	1.76	0.02	0.0125	0.0045	0.0179	0.3602	1.4292	0.1031	0.0172	0.0926	0.1669	0.8983
11	2.22	0.01	0.0137	0.0047	0.0185	0.3451	1.3478	0.1420	0.0215	0.1102	0.1513	0.7765
12	2.72	0.03	0.0049	0.0036	0.0154	0.7352	3.1495	0.1797	0.0259	0.1234	0.1442	0.6868
13	3.19	0.02	0.0009	0.0038	0.0145	4.1693	16.1110	0.2003	0.0285	0.1374	0.1421	0.6859
14	3.64	0.02	0.0098	0.0047	0.0174	0.4748	1.7720	0.2536	0.0338	0.1592	0.1332	0.6275
15	4.11	0.01	0.0084	0.0047	0.0176	0.5539	2.0951	0.2926	0.0365	0.1736	0.1247	0.5935
16	4.55	0.02	0.0109	0.0051	0.0187	0.4682	1.7185	0.3234	0.0398	0.1903	0.1231	0.5885
17	5.02	0.01	0.0058	0.0044	0.0179	0.7634	3.0918	0.3807	0.0426	0.2157	0.1120	0.5666
18	5.45	0.04	0.0057	0.0049	0.0190	0.5029	1.9621	0.4116	0.0439	0.2291	0.1067	0.5566
19	5.89	0.01	-0.0058	0.0002	0.0016	-0.0259	-0.2702	0.0029	0.0001	-0.0015	0.0259	-0.5289
20	6.80	0.0	0.0100	0.0046	0.0177	0.4578	1.7732	0.5245	0.0460	0.2833	0.0689	0.5402
21	7.23	-0.01	0.0135	0.0054	0.0205	0.4002	1.5184	0.5637	0.0469	0.2984	0.0831	0.5293
22	7.67	0.02	0.0054	0.0050	0.0195	0.9172	3.6110	0.6010	0.0469	0.3157	0.0780	0.5253
23	8.11	0.02	0.0167	0.0067	0.0240	0.3999	1.4350	0.6342	0.0466	0.3316	0.0735	0.5228
24	9.32	-0.03	0.0124	0.0066	0.0243	0.5326	1.9622	0.7311	0.0459	0.3735	0.0628	0.5109
25	9.75	-0.01	0.0116	0.0059	0.0221	0.5111	1.9022	0.7485	0.0454	0.3835	0.0606	0.5123
26	10.13	-0.04	0.0164	0.0068	0.0256	0.4118	1.5588	0.7754	0.0453	0.3955	0.0584	0.5100
27	10.52	-0.03	0.0192	0.0070	0.0246	0.3635	1.2811	0.8092	0.0442	0.4103	0.0547	0.5071
28	10.93	-0.01	0.0115	0.0060	0.0230	0.5221	2.0028	0.8247	0.0442	0.4170	0.0536	0.5056
29	11.33	0.02	0.0178	0.0070	0.0252	0.3921	1.4175	0.8652	0.0430	0.4319	0.0497	0.4992
30	11.68	0.0	0.0189	0.0072	0.0270	0.3812	1.4285	0.8843	0.0426	0.4421	0.0482	0.5000
31	12.05	0.01	0.0206	0.0069	0.0252	0.3352	1.2216	0.9195	0.0414	0.4571	0.0451	0.4971
32	12.41	-0.02	0.0240	0.0078	0.0288	0.3252	1.1999	0.9462	0.0403	0.4670	0.0426	0.4935
33	12.75	-0.01	0.0179	0.0067	0.0256	0.3731	1.3947	0.9627	0.0389	0.4757	0.0404	0.4941
34	13.12	0.03	0.0188	0.0069	0.0271	0.3672	1.4396	0.9827	0.0380	0.4808	0.0387	0.4893
35	13.47	-0.02	0.0288	0.0079	0.0317	0.2736	1.1006	1.0000	0.0360	0.4896	0.0360	0.4896
36	13.83	-0.01	0.0251	0.0070	0.0308	0.2781	1.2256	1.0372	0.0339	0.5048	0.0327	0.4867
37	14.17	-0.04	0.0280	0.0068	0.0297	0.2439	1.0618	1.0494	0.0323	0.5125	0.0308	0.4883
38	14.55	-0.03	0.0243	0.0063	0.0285	0.2594	1.1727	1.0799	0.0312	0.5238	0.0289	0.4851
39	14.88	-0.04	0.0265	0.0068	0.0310	0.2549	1.1709	1.0875	0.0306	0.5269	0.0281	0.4845
40	15.24	-0.01	0.0289	0.0071	0.0327	0.2467	1.1325	1.1056	0.0295	0.5371	0.0267	0.4858
41	15.57	-0.05	0.0290	0.0072	0.0320	0.2484	1.1022	1.1194	0.0297	0.5425	0.0266	0.4846
42	15.90	-0.01	0.0126	0.0051	0.0265	0.4050	2.1031	1.1450	0.0288	0.5500	0.0251	0.4804
43	16.23	-0.04	0.0290	0.0070	0.0334	0.2407	1.1505	1.1602	0.0298	0.5564	0.0257	0.4796
44	16.58	-0.01	0.0300	0.0077	0.0340	0.2577	1.1332	1.1782	0.0302	0.5616	0.0256	0.4766
45	16.90	-0.02	0.0325	0.0077	0.0361	0.2355	1.1117	1.1776	0.0289	0.5627	0.0245	0.4778
46	17.22	-0.03	0.0311	0.0082	0.0349	0.2630	1.1210	1.1719	0.0333	0.5497	0.0284	0.4690

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RA10-6		PHI		CNF		L		DEL1		DEL2		DEL3		DEL4		TRANSITION			
6			10		1.01		1.7		0.0		82WOF13		0.0		0		0		0		0		FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4												
47	17.50	-0.03	0.0335	0.0085	0.0363	0.2531	1.0825	1.1729	0.0326	0.5462	0.0278	0.4657												
48	17.89	-0.06	0.0293	0.0083	0.0374	0.2843	1.2752	1.1878	0.0318	0.5543	0.0267	0.4666												
49	18.24	-0.06	0.0421	0.0096	0.0410	0.2282	0.9722	1.1839	0.0304	0.5465	0.0257	0.4616												
50	18.57	-0.04	0.0296	0.0079	0.0364	0.2662	1.2285	1.1702	0.0282	0.5421	0.0239	0.4601												
51	18.93	-0.03	0.0339	0.0095	0.0406	0.2811	1.1975	1.1793	0.0298	0.5406	0.0219	0.4584												
52	19.23	-0.06	0.0409	0.0095	0.0401	0.2312	0.9787	1.1861	0.0240	0.5420	0.0202	0.4570												
53	19.55	-0.07	0.0292	0.0086	0.0374	0.2930	1.2784	1.1994	0.0215	0.5433	0.0179	0.4530												
54	19.90	-0.04	0.0359	0.0088	0.0383	0.2446	1.0658	1.2029	0.0201	0.5445	0.0167	0.4527												
55	20.21	0.0	0.0361	0.0087	0.0383	0.2411	1.0617	1.2137	0.0175	0.5457	0.0144	0.4496												
56	20.57	-0.04	0.0407	0.0098	0.0427	0.2416	1.0482	1.2240	0.0167	0.5501	0.0137	0.4495												
57	20.91	-0.06	0.0369	0.0095	0.0405	0.2563	1.0974	1.2356	0.0152	0.5515	0.0123	0.4463												
58	21.25	-0.06	0.0363	0.0087	0.0368	0.2398	1.0137	1.2426	0.0138	0.5565	0.0111	0.4479												
59	21.57	-0.05	0.0497	0.0108	0.0448	0.2174	0.9006	1.2486	0.0102	0.5546	0.0082	0.4442												
60	21.89	-0.05	0.0484	0.0106	0.0452	0.2186	0.9324	1.2624	0.0104	0.5622	0.0083	0.4454												
61	22.20	-0.06	0.0492	0.0114	0.0461	0.2319	0.9369	1.2715	0.0093	0.5662	0.0073	0.4453												
62	22.52	-0.06	0.0568	0.0102	0.0422	0.1797	0.7434	1.2630	0.0047	0.5614	0.0037	0.4445												

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	11	1.05	1.7	0.0	B2WOF13	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.77	0.0	-0.5104	1.4895	0.0426	0.1063	-0.0140	0.3820	-2.9181		
2	-2.72	-0.01	-0.4578	1.3309	-0.0310	0.0234	-0.0130	0.3763	-2.9069		
3	-2.06	0.03	-0.3570	1.0627	-0.0918	0.0685	-0.0080	0.3808	-2.9770		
4	-1.47	0.05	-0.2687	0.7401	-0.0092	0.1251	-0.0140	0.3764	-2.7547		
5	-0.91	0.01	-0.1514	0.4159	-0.0163	0.0548	-0.0130	0.3728	-2.7474		
6	-0.36	0.0	-0.0526	0.1306	0.0334	0.0392	-0.0100	0.3816	-2.4836		
7	0.16	0.01	0.0246	-0.0834	0.0046	0.0256	-0.0120	0.3870	-3.3919		
8	0.68	-0.01	0.1380	-0.4111	-0.0535	-0.0311	-0.0090	0.3878	-2.9797		
9	1.16	-0.03	0.2540	-0.7435	0.0175	0.0065	-0.0100	0.3838	-2.9276		
10	1.66	0.03	0.3541	-0.9996	0.0945	0.0321	-0.0070	0.3820	-2.8233		
11	2.14	0.03	0.4508	-1.3251	0.0305	0.0723	-0.0040	0.3642	-2.9391		
12	2.61	0.04	0.5479	-1.5800	-0.0489	0.0475	-0.0080	0.3650	-2.8836		
13	3.12	0.01	0.6881	-1.8842	-0.0125	0.0311	-0.0060	0.3773	-2.7333		
14	3.57	0.01	0.7614	-2.2028	-0.0339	0.0464	-0.0110	0.3745	-2.8431		
15	4.03	0.0	0.8529	-2.4579	0.0037	0.0858	-0.0080	0.3775	-2.8818		
16	4.47	0.05	0.9340	-2.6724	0.0352	0.0777	-0.0080	0.3760	-2.8613		
17	4.94	0.03	1.0466	-2.9770	0.0239	0.0835	-0.0090	0.3752	-2.8445		
18	5.36	0.02	1.1407	-3.2878	0.0396	0.1095	-0.0130	0.3562	-2.8822		
19	5.83	-0.01	1.2250	-3.4978	-0.0240	0.0266	-0.0060	0.3620	-2.8553		
20	6.27	-0.04	1.2911	-3.7343	-0.1632	0.0245	-0.0040	0.3520	-2.8923		
21	6.70	-0.01	1.4296	-4.0372	0.0088	0.0107	-0.0040	0.3659	-2.8240		
22	7.19	0.02	1.5013	-4.2555	0.0023	0.0808	-0.0040	0.3635	-2.8346		
23	7.58	0.02	1.5955	-4.4934	0.0005	0.0223	0.0020	0.3807	-2.8163		
24	8.02	0.05	1.6645	-4.7250	-0.0076	0.1186	-0.0030	0.3564	-2.8387		
25	8.44	0.02	1.7612	-4.9463	-0.0075	0.1065	-0.0070	0.3699	-2.8085		
26	8.87	0.0	1.8365	-5.0927	-0.1045	0.0499	-0.0040	0.3685	-2.7731		
27	9.26	-0.05	1.9166	-5.3520	-0.1415	0.2181	-0.0060	0.3582	-2.7924		
28	9.70	-0.04	2.0127	-5.5715	-0.1624	0.0793	-0.0060	0.3450	-2.7681		
29	10.09	0.02	2.1321	-5.7466	0.1096	0.1845	-0.0090	0.3316	-2.6953		
30	10.58	-0.05	2.1826	-5.9203	-0.0878	0.3449	-0.0020	0.3276	-2.7125		
31	10.88	-0.06	2.2772	-6.0677	-0.1325	0.1925	-0.0060	0.3210	-2.6645		
32	11.24	0.01	2.3459	-6.2539	0.0392	0.2671	-0.0070	0.3272	-2.6659		
33	11.62	-0.02	2.4420	-6.4474	-0.1437	0.1952	-0.0170	0.3416	-2.6402		
34	11.97	0.02	2.5020	-6.5724	-0.0087	0.1852	-0.0130	0.3561	-2.6269		
35	12.35	-0.03	2.5957	-6.7241	-0.1927	0.2737	-0.0050	0.3785	-2.5865		
36	12.69	-0.01	2.6462	-6.7952	-0.0163	0.2048	-0.0180	0.3659	-2.5680		
37	13.06	-0.05	2.6987	-6.8768	-0.0672	0.3320	-0.0170	0.3787	-2.5482		
38	13.41	-0.05	2.7699	-7.0645	-0.0350	0.2180	-0.0240	0.3714	-2.5504		
39	14.13	-0.02	2.8928	-7.2585	-0.1536	0.4200	-0.0250	0.3697	-2.5092		
40	14.51	-0.04	3.0189	-7.3480	-0.1469	0.3756	-0.0160	0.3615	-2.4536		
41	14.85	-0.03	3.0739	-7.5940	-0.0344	0.1891	-0.0310	0.3563	-2.4705		
42	15.18	-0.01	3.1113	-7.6504	-0.0676	0.3176	-0.0290	0.3525	-2.4589		
43	15.53	-0.05	3.2259	-7.7888	-0.0690	0.3845	-0.0260	0.3491	-2.4145		
44	15.85	-0.04	3.3114	-7.9455	-0.0705	0.3177	-0.0350	0.3435	-2.3995		
45	16.19	-0.05	3.3967	-8.0969	-0.1339	0.3754	-0.0420	0.3369	-2.3838		
46	16.50	-0.04	3.4851	-8.3038	-0.1450	0.4279	-0.0460	0.3284	-2.3826		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

 PAGE 1 OF 3
 SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	11	1.05	1.7	0.0	B2W0F13	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.86	-0.04	3.5799	-8.3595	-0.1176	0.3196	-0.0490	0.3233	-2.3351	
48	17.17	0.03	3.6232	-8.3661	-0.1925	0.3035	-0.0450	0.3315	-2.3366	
49	17.51	0.04	3.7168	-8.5381	-0.0666	0.4342	-0.0450	0.3248	-2.2972	
50	17.82	-0.08	3.7667	-8.6659	-0.0441	0.3427	-0.0530	0.3292	-2.3007	
51	18.85	-0.02	4.0159	-8.8368	-0.0753	0.5783	-0.0640	0.3024	-2.2005	
52	19.18	-0.01	4.1127	-8.8413	-0.1183	0.3486	-0.0490	0.2973	-2.1498	
53	19.51	-0.07	4.1691	-8.8733	-0.1664	0.2889	-0.0540	0.2991	-2.1244	
54	19.85	0.02	4.2089	-8.9761	0.1241	0.3202	-0.0570	0.3094	-2.1326	
55	20.19	-0.03	4.2915	-8.8608	0.0546	0.2925	-0.0960	0.2995	-2.0647	
56	20.52	-0.04	4.4127	-8.9784	-0.0774	0.5103	-0.1050	0.3045	-2.0347	
57	20.87	-0.05	4.5085	-9.0606	-0.1309	0.5102	-0.1150	0.3051	-2.0097	
58	21.21	-0.04	4.5708	-9.1328	-0.0610	0.1494	-0.1020	0.3009	-1.9981	
59	21.51	-0.05	4.6341	-9.2154	-0.1773	0.4672	-0.1140	0.3023	-1.9886	
60	21.85	-0.09	4.6624	-9.1750	-0.0354	0.0965	-0.0910	0.2863	-1.9679	
61	22.15	0.0	4.7526	-9.2103	0.0967	-0.0734	-0.0890	0.2950	-1.9380	
62	22.48	-0.01	4.8670	-9.2294	0.0620	0.0452	-0.1000	0.2760	-1.8963	
63	22.82	-0.06	4.9857	-9.2198	-0.0220	0.0408	-0.0870	0.2650	-1.8492	
64	23.09	-0.09	5.0138	-9.2821	-0.0535	0.0859	-0.0960	0.2653	-1.8513	
65	23.46	-0.04	5.1354	-9.2093	-0.0026	0.2246	-0.0920	0.2484	-1.7933	
66	23.76	-0.04	5.2135	-9.2647	-0.0703	0.5034	-0.1200	0.2441	-1.7770	
67	24.12	-0.10	5.3304	-9.1963	0.0486	-0.0340	-0.0740	0.2170	-1.7253	
68	24.43	-0.07	5.3804	-9.3183	0.0491	0.1472	-0.1000	0.2228	-1.7319	
69	24.74	-0.08	5.4724	-9.2561	0.0077	0.1892	-0.0870	0.2307	-1.6914	
70	25.08	-0.05	5.6360	-9.3122	0.1002	-0.2063	-0.0590	0.2282	-1.6523	
71	25.36	-0.06	5.6976	-9.2564	0.0452	0.2237	-0.1030	0.2117	-1.6246	
72	25.68	-0.08	5.7419	-9.1676	0.0865	-0.1281	-0.0710	0.1940	-1.5966	
73	25.97	-0.05	5.8990	-9.2655	0.1235	-0.0699	-0.0750	0.1962	-1.5707	
74	26.28	-0.09	5.9746	-9.1854	0.0361	-0.0935	-0.0710	0.1843	-1.5374	
75	26.57	-0.07	6.0621	-9.1309	0.0668	-0.0335	-0.0960	0.1850	-1.5062	
76	26.88	-0.07	6.1510	-9.2133	0.0637	0.0168	-0.0660	0.1919	-1.4979	
77	27.22	-0.07	6.3340	-9.1595	0.0756	-0.1038	-0.0800	0.1895	-1.4461	
78	27.55	-0.09	6.4974	-9.2193	0.0566	-0.0982	-0.0520	0.1863	-1.4189	
79	27.86	-0.09	6.5834	-9.0708	0.1377	-0.3467	-0.0310	0.1694	-1.3778	
80	28.18	-0.07	6.6668	-8.9706	0.1043	0.0520	-0.0930	0.1550	-1.3456	
81	28.50	-0.08	6.8031	-8.9474	-0.0699	0.4158	-0.1230	0.1409	-1.3152	
82	28.82	-0.09	6.8955	-8.8848	0.1463	-0.3298	-0.0540	0.1261	-1.2885	
83	29.15	-0.07	7.0974	-8.8935	0.0836	0.1069	-0.0500	0.1100	-1.2531	
84	29.45	0.05	7.0906	-8.7899	0.4681	1.0444	-0.1760	0.0881	-1.2397	
85	29.77	-0.05	7.1524	-8.7755	0.2294	0.0308	-0.0910	0.0933	-1.2269	
86	29.93	-0.02	7.2509	-8.8864	0.1975	0.1425	-0.1150	0.1008	-1.2256	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6											PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 11 1.05 1.7											0.0	82M0F13	0.0	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CNF1	CH1	C01	XCPF1	YCPF1	CNF2	CH2	C02	XCPF2	YCPF2						
1	-2.77	0.0	0.0203	0.0028	-0.0264	0.1368	-1.2973	-0.2155	-0.0249	-0.0948	0.1153	0.4400						
2	-2.72	-0.01	0.0283	0.0034	-0.0241	0.1193	-0.8505	-0.1892	-0.0230	-0.0878	0.1214	0.4638						
3	-2.06	0.03	0.0346	0.0042	-0.0205	0.1236	-0.6621	-0.1572	-0.0168	-0.0742	0.1194	0.4720						
4	-1.47	0.05	0.0278	0.0029	-0.0237	0.1053	-0.8538	-0.1111	-0.0131	-0.0525	0.1176	0.4729						
5	-0.91	0.01	0.0170	0.0023	-0.0243	0.1368	-1.4315	-0.0679	-0.0079	-0.0313	0.1161	0.4613						
6	-0.36	0.0	0.0381	0.0033	-0.0203	0.0867	-0.5329	-0.0307	-0.0020	-0.0075	0.0636	0.2453						
7	0.16	0.01	0.0407	0.0035	-0.0187	0.0848	-0.4604	0.0072	0.0012	0.0026	0.1668	0.3610						
8	0.68	-0.01	0.0286	0.0028	-0.0206	0.0971	-0.7192	0.0384	0.0072	0.0244	0.1876	0.6353						
9	1.16	-0.03	0.0415	0.0035	-0.0167	0.0832	-0.4017	0.0897	0.0121	0.0440	0.1347	0.4904						
10	1.66	0.03	0.0309	0.0033	-0.0159	0.1069	-0.5147	0.1231	0.0152	0.0565	0.1239	0.4592						
11	2.14	0.03	0.0341	0.0024	-0.0183	0.0704	-0.5378	0.1669	0.0214	0.0790	0.1282	0.4735						
12	2.61	0.04	0.0263	0.0023	-0.0191	0.0856	-0.7276	0.2070	0.0250	0.0904	0.1208	0.4366						
13	3.12	0.01	0.0453	0.0023	-0.0187	0.0497	-0.4129	0.2438	0.0291	0.1115	0.1195	0.4571						
14	3.57	0.01	0.0368	0.0027	-0.0175	0.0734	-0.4766	0.2980	0.0342	0.1304	0.1149	0.4376						
15	4.03	0.0	0.0315	0.0021	-0.0207	0.0667	-0.6573	0.3344	0.0375	0.1473	0.1123	0.4406						
16	4.47	0.05	0.0462	0.0021	-0.0145	0.0455	-0.3226	0.3647	0.0384	0.1596	0.1052	0.4377						
17	4.94	0.03	0.0367	0.0024	-0.0176	0.0654	-0.4788	0.3942	0.0406	0.1807	0.1030	0.4583						
18	5.36	0.02	0.0493	0.0027	-0.0179	0.0922	-0.6122	0.4333	0.0420	0.1937	0.0959	0.4419						
19	5.83	-0.01	0.0391	0.0024	-0.0162	0.0614	-0.4136	0.4684	0.0429	0.2120	0.0915	0.4526						
20	6.27	-0.04	0.0445	0.0022	-0.0104	0.0489	-0.2331	0.5103	0.0438	0.2277	0.0858	0.4462						
21	6.73	-0.01	0.0382	0.0028	-0.0159	0.0727	-0.4155	0.5481	0.0442	0.2437	0.0807	0.4446						
22	7.19	0.02	0.0340	0.0037	-0.0137	0.0443	-0.3914	0.5855	0.0442	0.2599	0.0754	0.4439						
23	7.58	0.02	0.0525	0.0035	-0.0114	0.0658	-0.2173	0.6182	0.0446	0.2772	0.0721	0.4484						
24	8.02	0.05	0.0580	-0.0009	-0.0141	-0.0237	-0.3720	0.6505	0.0445	0.2841	0.0685	0.4367						
25	8.44	0.02	0.0096	-0.0001	-0.0161	-0.0078	-1.6772	0.6793	0.0443	0.2479	0.0652	0.4385						
26	8.87	0.0	0.0230	-0.0015	-0.0121	-0.0653	-0.5277	0.7036	0.0445	0.3085	0.0633	0.4384						
27	9.26	-0.05	0.0099	-0.0018	-0.0126	-0.1819	-1.2728	0.7374	0.0441	0.3264	0.0598	0.4426						
28	9.70	-0.04	0.0098	-0.0029	-0.0103	-0.2910	-1.0545	0.7618	0.0455	0.3402	0.0597	0.4466						
29	10.09	0.02	0.0050	-0.0040	-0.0123	-0.7955	-2.4668	0.7877	0.0455	0.3481	0.0578	0.4419						
30	10.48	-0.05	0.0035	-0.0044	-0.0134	-1.2436	-3.8382	0.8090	0.0460	0.3604	0.0569	0.4455						
31	10.86	-0.06	0.0	-0.0051	-0.0125	-0.0051	-0.0125	0.8380	0.0454	0.3679	0.0542	0.4390						
32	11.24	0.01	-0.0038	-0.0054	-0.0161	1.4219	4.2280	0.8701	0.0447	0.3815	0.0513	0.4384						
33	11.62	-0.02	-0.0085	-0.0060	-0.0145	0.7063	1.7097	0.9002	0.0430	0.3924	0.0478	0.4359						
34	11.97	0.02	-0.0069	-0.0069	-0.0142	1.0006	2.0579	0.9154	0.0420	0.4011	0.0459	0.4381						
35	12.35	-0.03	0.0018	-0.0079	-0.0088	-4.3777	-4.8890	0.9413	0.0402	0.4068	0.0428	0.4322						
36	12.69	-0.01	-0.0089	-0.0077	-0.0151	0.8685	1.8928	0.9550	0.0392	0.4176	0.0410	0.4372						
37	13.06	-0.05	-0.0085	-0.0046	-0.0133	1.1301	1.5885	0.9752	0.0392	0.4232	0.0402	0.4340						
38	13.41	-0.05	0.0128	-0.0001	-0.0014	-0.0059	-0.1121	0.9014	-0.0001	-0.0004	-0.0536	-0.3096						
39	14.13	-0.02	-0.0340	-0.0087	-0.0265	0.2560	0.7803	1.0398	0.0371	0.4491	0.0357	0.4315						
40	14.51	-0.04	-0.0149	-0.0127	-0.0152	0.8512	1.2862	1.0531	0.0363	0.4520	0.0344	0.4292						
41	14.85	-0.03	-0.0378	-0.0102	-0.0291	0.2700	0.7697	1.0782	0.0359	0.4614	0.0333	0.4280						
42	15.18	-0.01	-0.0204	-0.0110	-0.0226	0.5371	1.0783	1.0952	0.0343	0.4704	0.0314	0.4303						
43	15.53	-0.05	-0.0420	-0.0126	-0.0255	0.3002	0.6070	1.1158	0.0337	0.4746	0.0302	0.4253						
44	15.85	-0.04	-0.0404	-0.0128	-0.0306	0.3176	0.7565	1.1226	0.0324	0.4858	0.0289	0.4328						
45	16.19	-0.05	-0.0571	-0.0141	-0.0312	0.2471	0.5469	1.1423	0.0309	0.4929	0.0271	0.4315						
46	16.50	-0.04	-0.0614	-0.0140	-0.0374	0.2286	0.6085	1.1720	0.0306	0.5004	0.0261	0.4269						

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RATIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	11	1.05	1.7	0.0	82WUF13	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.86	-0.04	-0.0561	-0.0152	-0.0374	0.2702	0.6665	1.1828	0.0294	0.5051	0.0248	0.4270
48	17.17	0.03	-0.0593	-0.0138	-0.0421	0.2329	0.7093	1.1977	0.0286	0.5138	0.0239	0.4290
49	17.51	0.04	-0.0594	-0.0136	-0.0394	0.2287	0.6632	1.2204	0.0278	0.5186	0.0228	0.4250
50	17.82	-0.08	-0.0752	-0.0146	-0.0432	0.1936	0.5739	1.2225	0.0273	0.5227	0.0224	0.4276
51	18.85	-0.02	-0.0898	-0.0216	-0.0464	0.2398	0.5170	1.2724	0.0241	0.5323	0.0189	0.4184
52	19.18	-0.01	-0.0785	-0.0158	-0.0484	0.2017	0.6160	1.2664	0.0273	0.5171	0.0216	0.4084
53	19.51	-0.07	-0.0739	-0.0120	-0.0547	0.1625	0.7392	1.2609	0.0268	0.5212	0.0213	0.4134
54	19.85	0.02	-0.0909	-0.0159	-0.0523	0.1750	0.5752	1.2655	0.0260	0.5272	0.0202	0.4101
55	20.19	-0.03	-0.0693	-0.0089	-0.0622	0.1278	0.8974	1.2979	0.0237	0.5288	0.0182	0.4075
56	20.52	-0.04	-0.1023	-0.0171	-0.0652	0.1674	0.6375	1.3177	0.0237	0.5410	0.0179	0.4106
57	20.87	-0.05	-0.0689	-0.0120	-0.0649	0.1351	0.7292	1.3363	0.0226	0.5455	0.0169	0.4082
58	21.21	-0.04	-0.0645	-0.0065	-0.0621	0.1012	0.9627	1.3523	0.0211	0.5439	0.0156	0.4022
59	21.51	-0.05	-0.0975	-0.0128	-0.0664	0.1310	0.6813	1.3544	0.0216	0.5561	0.0159	0.4106
60	21.85	-0.09	-0.0254	-0.0014	-0.0548	0.0561	2.1560	1.3566	0.0189	0.5529	0.0139	0.4076
61	22.15	0.0	-0.0194	-0.0025	-0.0509	0.1277	2.6219	1.3747	0.0179	0.5569	0.0131	0.4051
62	22.46	-0.01	-0.0111	-0.0005	-0.0489	0.0406	4.4053	1.3717	0.0157	0.5525	0.0114	0.4028
63	22.82	-0.06	-0.0392	-0.0008	-0.0458	0.0816	4.9745	1.3876	0.0158	0.5601	0.0114	0.4037
64	23.09	-0.09	-0.0226	-0.0032	-0.0513	0.1428	2.2668	1.3906	0.0152	0.5592	0.0109	0.4021
65	23.46	-0.04	-0.0821	-0.0138	-0.0608	0.1682	0.7400	1.3936	0.0149	0.5676	0.0107	0.4073
66	23.76	-0.04	-0.0733	-0.0123	-0.0590	0.1679	0.8039	1.4130	0.0140	0.5697	0.0099	0.4032
67	24.12	-0.10	-0.0090	-0.0020	-0.0576	0.2168	4.1777	1.4078	0.0099	0.5716	0.0070	0.4061
68	24.43	-0.07	-0.0208	-0.0041	-0.0432	0.1984	2.0736	1.4275	0.0103	0.5775	0.0072	0.4046
69	24.74	-0.08	0.0096	0.0010	-0.0484	0.1016	-2.9585	1.4417	0.0075	0.5730	0.0052	0.3975
70	25.08	-0.05	0.0460	0.0037	-0.0698	0.0799	-0.2124	1.4505	0.0070	0.5846	0.0048	0.4030
71	25.36	-0.06	-0.0024	-0.0026	-0.0353	1.0944	14.7082	1.4582	0.0074	0.5900	0.0051	0.4046
72	25.68	-0.08	0.0415	0.0001	-0.0142	0.0018	-0.3415	1.4658	0.0077	0.5922	0.0053	0.4040
73	25.97	-0.05	0.0474	0.0001	-0.0202	0.0016	-0.4263	1.4897	0.0057	0.5983	0.0038	0.4017
74	26.28	-0.09	0.0877	0.0048	-0.0304	0.0548	-0.0043	1.4842	0.0042	0.5997	0.0028	0.4041
75	26.57	-0.07	0.0260	0.0007	-0.0190	0.0260	-0.7322	1.4863	0.0051	0.6000	0.0034	0.4037
76	26.88	-0.07	0.0473	0.0006	-0.0061	0.0127	-0.1298	1.5028	0.0030	0.6053	0.0020	0.4028
77	27.22	-0.07	0.0050	0.0013	-0.0302	0.2552	-6.0268	1.5128	0.0032	0.6091	0.0021	0.4026
78	27.55	-0.09	0.0618	0.0015	-0.0114	0.0243	-0.1846	1.5321	0.0018	0.6125	0.0012	0.3998
79	27.86	-0.09	0.1026	0.0041	0.0132	0.0395	0.1283	1.5230	0.0001	0.6132	0.0000	0.4026
80	28.18	-0.07	0.0198	-0.0017	-0.0197	-0.0834	-0.9951	1.5204	0.0025	0.6167	0.0016	0.4056
81	28.50	-0.08	0.0251	0.0006	-0.0117	0.0239	-0.4676	1.5261	-0.0008	0.6170	-0.0005	0.4043
82	28.82	-0.09	0.0662	0.0011	-0.0010	0.0170	-0.0157	1.5369	-0.0011	0.6194	-0.0007	0.4030
83	29.15	-0.07	0.0621	-0.0026	0.0025	-0.0423	0.0401	1.5383	-0.0015	0.6237	-0.0010	0.4054
84	29.45	0.05	-0.1282	-0.0122	-0.0546	0.0949	0.7384	1.5383	-0.0021	0.6177	-0.0014	0.4015
85	29.77	-0.05	0.0379	-0.0036	-0.0042	-0.0950	-0.1101	1.5443	-0.0036	0.6165	-0.0023	0.3992
86	29.93	-0.02	-0.0009	-0.0038	-0.0358	4.1693	39.7776	1.5480	-0.0029	0.6246	-0.0019	0.4035

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6			PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 11 1.05 1.7			0.0	B2M0F13	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.77	0.0	0.0084	0.0023	0.0125	0.2770	1.4880	-0.2567	-0.0255	-0.0697	0.0991	0.2716
2	-2.72	-0.01	0.0012	0.0027	0.0150	2.2514	12.4999	-0.2569	-0.0240	-0.0619	0.0932	0.2409
3	-2.06	0.03	0.0130	0.0032	0.0155	0.2482	1.1948	-0.2076	-0.0191	-0.0475	0.0922	0.2286
4	-1.47	0.05	0.0146	0.0029	0.0149	0.2005	1.0181	-0.1535	-0.0137	-0.0253	0.0895	0.1650
5	-0.91	0.01	0.0078	0.0030	0.0152	0.3849	1.9486	-0.1100	-0.0090	-0.0050	0.0819	0.0457
6	-0.36	0.0	0.0049	0.0033	0.0154	0.6739	3.1495	-0.0715	-0.0047	0.0103	0.0661	-0.1437
7	0.16	0.01	0.0034	0.0032	0.0168	0.9491	4.9509	-0.0411	-0.0014	0.0242	0.0329	-0.5889
8	0.68	-0.01	0.0088	0.0032	0.0168	0.3667	1.9128	0.0081	0.0045	0.0464	0.5559	5.7283
9	1.16	-0.03	0.0141	0.0034	0.0162	0.2395	1.1488	0.0433	0.0084	0.0663	0.1941	1.5295
10	1.66	0.03	0.0072	0.0038	0.0169	0.5212	2.3471	0.0824	0.0128	0.0821	0.1541	0.9914
11	2.14	0.03	0.0058	0.0038	0.0166	0.6599	2.8677	0.1297	0.0182	0.1031	0.1407	0.7954
12	2.61	0.04	0.0110	0.0042	0.0165	0.3821	1.4969	0.1629	0.0217	0.1194	0.1332	0.7331
13	3.12	0.01	0.0121	0.0044	0.0175	0.3659	1.4820	0.1942	0.0261	0.1374	0.1346	0.7072
14	3.57	0.01	0.0092	0.0047	0.0185	0.5057	2.0071	0.2382	0.0297	0.1564	0.1245	0.6566
15	4.03	0.0	0.0190	0.0043	0.0165	0.2251	0.8911	0.2857	0.0331	0.1764	0.1159	0.6176
16	4.47	0.05	0.0167	0.0054	0.0210	0.3236	1.2554	0.3165	0.0348	0.1867	0.1099	0.5899
17	4.94	0.03	0.0159	0.0048	0.0192	0.3021	1.2074	0.3664	0.0357	0.2038	0.0973	0.5563
18	5.36	0.02	0.0250	0.0053	0.0197	0.2101	0.7392	0.4030	0.0371	0.2265	0.0920	0.5621
19	5.83	-0.01	0.0196	0.0053	0.0202	0.2680	1.0322	0.4310	0.0378	0.2421	0.0878	0.5616
20	6.27	-0.04	0.0273	0.0059	0.0217	0.2144	0.7948	0.4735	0.0386	0.2571	0.0815	0.5431
21	6.70	-0.01	0.0172	0.0051	0.0186	0.2567	1.0832	0.5167	0.0387	0.2716	0.0750	0.5257
22	7.19	0.02	0.0191	0.0060	0.0229	0.3143	1.1971	0.5540	0.0395	0.2929	0.0713	0.5286
23	7.58	0.02	0.0159	0.0065	0.0251	0.4059	1.5785	0.5909	0.0397	0.3104	0.0672	0.5252
24	8.02	0.05	0.0267	0.0065	0.0250	0.2417	0.9362	0.6216	0.0390	0.3191	0.0627	0.5133
25	8.44	0.02	0.0089	0.0050	0.0212	0.5650	2.3782	0.6493	0.0385	0.3347	0.0593	0.5155
26	8.87	0.0	0.0278	0.0068	0.0255	0.2457	0.9303	0.6832	0.0379	0.3452	0.0555	0.5053
27	9.26	-0.05	0.0254	0.0065	0.0243	0.2541	0.9553	0.7167	0.0378	0.3602	0.0527	0.5026
28	9.70	-0.04	0.0110	0.0061	0.0229	0.5526	2.0787	0.7336	0.0381	0.3707	0.0520	0.5053
29	10.09	0.02	0.0238	0.0070	0.0258	0.2932	1.0853	0.7741	0.0381	0.3890	0.0492	0.5025
30	10.48	-0.05	0.0202	0.0068	0.0235	0.3344	1.1649	0.7994	0.0387	0.4023	0.0485	0.5032
31	10.86	-0.06	0.0274	0.0079	0.0213	0.2876	0.9974	0.8258	0.0384	0.4127	0.0466	0.4998
32	11.24	0.01	0.0242	0.0069	0.0236	0.2853	0.9737	0.8590	0.0378	0.4229	0.0441	0.4923
33	11.62	-0.02	0.0164	0.0069	0.0268	0.3752	1.4582	0.8693	0.0362	0.4326	0.0416	0.4977
34	11.97	0.02	0.0151	0.0059	0.0232	0.3926	1.5385	0.9056	0.0348	0.4409	0.0385	0.4869
35	12.35	-0.03	0.0325	0.0082	0.0281	0.2517	0.8655	0.9222	0.0336	0.4513	0.0364	0.4893
36	12.69	-0.01	0.0325	0.0077	0.0279	0.2378	0.8594	0.9394	0.0328	0.4567	0.0349	0.4862
37	13.06	-0.05	0.0310	0.0079	0.0284	0.2542	0.9171	0.9647	0.0327	0.4644	0.0339	0.4814
38	13.41	-0.05	-0.0056	0.0002	0.0015	-0.0268	-0.2739	0.0028	0.0001	-0.0015	0.0268	-0.5239
39	14.13	-0.02	0.0172	0.0062	0.0252	0.3578	1.4669	1.0157	0.0338	0.4891	0.0303	0.4816
40	14.51	-0.04	0.0309	0.0077	0.0282	0.2502	0.9125	1.0421	0.0298	0.5004	0.0286	0.4802
41	14.85	-0.03	0.0413	0.0095	0.0360	0.2290	0.8707	1.0493	0.0288	0.5083	0.0274	0.4844
42	15.18	-0.01	0.0215	0.0072	0.0307	0.3351	1.4262	1.0696	0.0282	0.5099	0.0263	0.4767
43	15.53	-0.05	0.0288	0.0081	0.0337	0.2814	1.1700	1.0917	0.0268	0.5207	0.0246	0.4769
44	15.85	-0.04	0.0279	0.0075	0.0327	0.2690	1.1719	1.1081	0.0250	0.5275	0.0226	0.4761
45	16.19	-0.05	0.0403	0.0094	0.0353	0.2328	0.8766	1.1356	0.0237	0.5378	0.0209	0.4736
46	16.50	-0.04	0.0505	0.0098	0.0383	0.1947	0.7590	1.1557	0.0220	0.5482	0.0190	0.4743

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	PACH	RA	10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	11	1.05	1.7		0.0	B2WOF13	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPE3	YCPE3	CNF4	CH4	C84	XCPE4	YCPE4
47	16.86	-0.04	0.0517	0.0099	0.0384	0.1916	0.7433	1.1784	0.0208	0.5556	0.0176	0.4714
48	17.17	0.03	0.0323	0.0092	0.0354	0.2835	1.0948	1.1845	0.0200	0.5609	0.0169	0.4735
49	17.51	0.04	0.0441	0.0092	0.0373	0.2093	0.8457	1.2068	0.0200	0.5657	0.0166	0.4688
50	17.82	-0.08	0.0386	0.0090	0.0388	0.2333	1.0042	1.2109	0.0200	0.5698	0.0165	0.4705
51	18.87	-0.02	0.0473	0.0099	0.0424	0.2094	0.8956	1.2460	0.0232	0.5822	0.0186	0.4672
52	19.18	-0.01	0.0491	0.0096	0.0395	0.1956	0.8118	1.2613	0.0228	0.5836	0.0181	0.4627
53	19.51	-0.07	0.0648	0.0107	0.0411	0.1656	0.6341	1.2667	0.0227	0.5851	0.0179	0.4619
54	19.85	0.02	0.0497	0.0087	0.0376	0.1752	0.7557	1.2872	0.0209	0.5907	0.0162	0.4589
55	20.19	-0.03	0.0536	0.0107	0.0436	0.1988	0.8127	1.2350	0.0202	0.5570	0.0164	0.4510
56	20.52	-0.04	0.0595	0.0102	0.0421	0.1715	0.7080	1.2672	0.0170	0.5661	0.0134	0.4468
57	20.87	-0.05	0.0559	0.0113	0.0447	0.2014	0.7933	1.2708	0.0167	0.5683	0.0132	0.4472
58	21.21	-0.04	0.0605	0.0109	0.0412	0.1759	0.6803	1.2721	0.0158	0.5684	0.0124	0.4468
59	21.51	-0.05	0.0569	0.0101	0.0415	0.1781	0.7286	1.2910	0.0142	0.5714	0.0110	0.4426
60	21.85	-0.09	0.0522	0.0105	0.0435	0.2013	0.8332	1.2803	0.0134	0.5677	0.0104	0.4434
61	22.15	0.0	0.0468	0.0104	0.0440	0.2229	0.9401	1.2795	0.0125	0.5736	0.0097	0.4483
62	22.48	-0.01	0.0594	0.0116	0.0455	0.1958	0.7659	1.2832	0.0097	0.5725	0.0075	0.4461
63	22.82	-0.06	0.0630	0.0122	0.0474	0.1930	0.7523	1.3061	0.0086	0.5753	0.0066	0.4405
64	23.09	-0.09	0.0581	0.0115	0.0457	0.1576	0.7859	1.3029	0.0077	0.5782	0.0059	0.4438
65	23.46	-0.04	0.0455	0.0102	0.0441	0.2243	0.9684	1.3275	0.0047	0.5836	0.0035	0.4396
66	23.76	-0.04	0.0640	0.0107	0.0451	0.1665	0.7035	1.3303	0.0039	0.5845	0.0029	0.4393
67	24.12	-0.10	0.0651	0.0115	0.0444	0.1764	0.6819	1.3327	0.0037	0.5865	0.0028	0.4400
68	24.43	-0.07	0.0634	0.0115	0.0486	0.1811	0.7654	1.3348	0.0029	0.5924	0.0021	0.4438
69	24.74	-0.08	0.0712	0.0119	0.0494	0.1665	0.6928	1.3535	0.0026	0.5925	0.0019	0.4377
70	25.08	-0.05	0.0567	0.0119	0.0481	0.2091	0.6482	1.3483	0.0018	0.5987	0.0013	0.4440
71	25.35	-0.06	0.0662	0.0118	0.0473	0.1780	0.7139	1.3681	0.0008	0.6047	0.0005	0.4420
72	25.68	-0.08	0.0758	0.0134	0.0508	0.1772	0.6696	1.3649	0.0002	0.6041	0.0001	0.4426
73	25.97	-0.05	0.0686	0.0115	0.0493	0.1728	0.7181	1.3852	-0.0008	0.6091	-0.0006	0.4398
74	26.28	-0.09	0.0714	0.0119	0.0476	0.1661	0.6665	1.3739	-0.0010	0.6124	-0.0007	0.4457
75	26.57	-0.07	0.0664	0.0125	0.0517	0.1876	0.7775	1.3831	-0.0020	0.6112	-0.0015	0.4419
76	26.88	-0.07	0.0651	0.0115	0.0455	0.1764	0.6988	1.3976	-0.0024	0.6193	-0.0017	0.4431
77	27.22	-0.07	0.0734	0.0131	0.0499	0.1789	0.6793	1.3993	-0.0033	0.6256	-0.0024	0.4471
78	27.55	-0.09	0.0611	0.0113	0.0477	0.1842	0.7800	1.4210	-0.0042	0.6275	-0.0030	0.4416
79	27.86	-0.09	0.0654	0.0120	0.0514	0.1836	0.7858	1.4068	-0.0047	0.6249	-0.0034	0.4442
80	28.18	-0.07	0.0686	0.0117	0.0493	0.1707	0.7181	1.4145	-0.0063	0.6220	-0.0045	0.4397
81	28.50	-0.08	0.0614	0.0107	0.0455	0.1736	0.7404	1.4048	-0.0064	0.6266	-0.0045	0.4460
82	28.82	-0.09	0.0704	0.0130	0.0533	0.1844	0.7365	1.4000	-0.0083	0.6215	-0.0059	0.4439
83	29.15	-0.07	0.0586	0.0113	0.0484	0.1921	0.8247	1.4118	-0.0103	0.6216	-0.0073	0.4403
84	29.45	0.05	0.0717	0.0119	0.0502	0.1654	0.7000	1.4032	-0.0110	0.6226	-0.0079	0.4437
85	29.77	-0.05	0.0627	0.0112	0.0492	0.1783	0.7846	1.4047	-0.0113	0.6156	-0.0081	0.4383
86	29.93	-0.02	0.0714	0.0125	0.0507	0.1755	0.7100	1.4094	-0.0118	0.6231	-0.0084	0.4421

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	12	1.10	1.7	0.0	B2WOF13	0.0	0	0	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	-2.76	0.02	-0.5147	1.5405	-0.0177	0.0388	-0.0060	0.3525	-2.9928
2	-2.52	0.03	-0.4869	1.4256	-0.0348	0.1267	-0.0010	0.3558	-2.9277
3	-1.90	0.09	-0.3786	1.0729	-0.0562	0.1697	-0.0010	0.3488	-2.8342
4	-1.35	0.03	-0.2499	0.7548	0.0894	0.1188	-0.0060	0.3482	-3.0206
5	-0.78	0.03	-0.1575	0.4414	0.0213	0.0932	-0.0040	0.3481	-2.8032
6	-0.27	0.02	-0.0319	0.0806	0.0355	0.0853	-0.0070	0.3476	-2.5285
7	0.28	0.02	0.0747	-0.2096	0.0134	0.0442	-0.0040	0.3564	-2.8056
8	0.79	0.03	0.1810	-0.4823	0.0621	0.0101	-0.0070	0.3490	-2.6652
9	1.29	0.05	0.2517	-0.7623	0.0468	-0.0223	0.0	0.3470	-3.0289
10	1.77	0.02	0.3707	-1.0178	-0.0252	0.1133	-0.0100	0.3483	-2.7461
11	2.25	0.0	0.4587	-1.3391	-0.0027	0.0898	-0.0070	0.3452	-2.9192
12	2.74	0.03	0.5629	-1.6250	0.1041	-0.0487	-0.0090	0.3509	-2.8938
13	3.20	-0.01	0.6749	-1.9487	0.0428	-0.0469	-0.0040	0.3451	-2.8674
14	3.68	-0.03	0.7895	-2.2381	-0.2255	0.2247	-0.0070	0.3542	-2.8349
15	4.11	0.03	0.8543	-2.4728	0.0175	0.0565	-0.0070	0.3611	-2.8946
16	4.56	0.03	0.9170	-2.6636	0.0141	0.2852	-0.0040	0.3619	-2.9047
17	5.03	-0.01	1.0480	-2.9979	-0.1507	0.0890	-0.0020	0.3658	-2.8607
18	5.45	0.04	1.1272	-3.2078	-0.0157	0.0560	-0.0060	0.3572	-2.8459
19	5.89	-0.01	1.2516	-3.5421	-0.0175	0.0255	-0.0040	0.3778	-2.8299
20	6.34	0.03	1.2835	-3.7017	-0.0176	0.2366	-0.0090	0.3655	-2.8840
21	6.82	0.02	1.4365	-3.9469	0.0056	0.1271	-0.0030	0.3835	-2.7475
22	7.26	0.03	1.4420	-4.1115	-0.0116	0.0232	-0.0100	0.3534	-2.8513
23	7.66	-0.06	1.5775	-4.4432	0.0673	0.0558	-0.0030	0.3821	-2.8166
24	8.13	-0.05	1.6771	-4.6726	-0.0852	0.2448	-0.0080	0.3882	-2.7662
25	8.56	0.04	1.7143	-4.7227	0.0812	0.0933	-0.0100	0.3914	-2.7549
26	8.98	-0.01	1.8504	-4.9472	-0.0286	0.2620	-0.0110	0.3852	-2.6736
27	9.35	0.02	1.9429	-5.2618	-0.0520	0.1538	-0.0050	0.3942	-2.7082
28	9.77	-0.02	2.0224	-5.3941	-0.0844	0.1061	-0.0020	0.4004	-2.6671
29	10.15	-0.02	2.0717	-5.4961	-0.3002	0.3512	-0.0120	0.3884	-2.6529
30	10.58	-0.02	2.0965	-5.6088	-0.0209	0.2062	-0.0100	0.3987	-2.6753
31	10.96	-0.04	2.2283	-5.8703	0.0594	0.0928	-0.0110	0.3924	-2.6344
32	11.35	-0.01	2.2881	-5.8840	-0.1358	0.2701	-0.0070	0.3954	-2.5716
33	11.70	-0.05	2.3154	-6.0112	-0.1679	0.2890	-0.0180	0.4081	-2.5962
34	12.09	-0.05	2.4321	-6.1845	-0.0940	0.1536	-0.0090	0.3964	-2.5429
35	12.43	-0.04	2.4780	-6.3408	-0.0739	0.2804	-0.0110	0.3966	-2.5589
36	12.81	0.02	2.6198	-6.4993	0.0660	0.2746	-0.0180	0.3983	-2.4809
37	13.14	-0.04	2.6099	-6.6134	-0.0723	0.3092	-0.0130	0.3830	-2.5340
38	13.52	0.0	2.6878	-6.6596	-0.0744	0.3191	-0.0260	0.3824	-2.4777
39	13.84	0.01	2.7971	-6.8866	-0.1300	0.3630	-0.0220	0.3824	-2.4620
40	14.22	-0.05	2.8966	-7.0039	-0.2020	0.3488	-0.0310	0.3771	-2.4179
41	14.59	-0.01	2.9464	-7.0536	-0.0883	0.2116	-0.0360	0.3774	-2.3940
42	14.92	-0.03	3.0184	-7.2644	-0.1421	0.2129	-0.0290	0.3646	-2.4067
43	15.29	0.0	3.0554	-7.2952	-0.0130	0.2792	-0.0400	0.3686	-2.3876
44	15.60	-0.04	3.1724	-7.3890	-0.1137	0.4931	-0.0460	0.3559	-2.3291
45	15.96	-0.05	3.2261	-7.5161	-0.0479	0.3410	-0.0470	0.3524	-2.3298
46	16.28	-0.06	3.2899	-7.6344	-0.1168	0.3355	-0.0500	0.3579	-2.3206

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

 PAGE 1 OF 3
 SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 12 1.10 1.7			0.0	B2WOF13	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.62	-0.01	3.4576	-7.7663	-0.1746	0.4064	-0.0530	0.3577	-2.2461	
48	16.96	-0.05	3.4566	-7.6959	-0.0396	0.2244	-0.0640	0.3693	-2.2276	
49	17.26	-0.01	3.5597	-7.9252	-0.1364	0.4209	-0.0570	0.3543	-2.2264	
50	17.61	-0.01	3.6680	-8.0208	-0.1271	0.4129	-0.0560	0.3476	-2.1867	
51	17.93	-0.06	3.7662	-8.1603	0.0224	0.4556	-0.0640	0.3439	-2.1667	
52	18.28	-0.07	3.8081	-8.2980	-0.1055	0.4126	-0.0680	0.3447	-2.1790	
53	18.61	-0.07	3.8855	-8.3223	-0.1191	0.3517	-0.0610	0.3371	-2.1419	
54	18.96	-0.01	3.9785	-8.3525	-0.0141	0.4367	-0.0650	0.3323	-2.0994	
55	19.28	-0.03	4.0402	-8.3829	-0.1158	0.4681	-0.0650	0.3408	-2.0749	
56	19.63	-0.04	4.1740	-8.4912	-0.0212	0.3816	-0.0910	0.3350	-2.0343	
57	19.96	-0.06	4.2784	-8.4855	-0.0472	0.6140	-0.0850	0.3417	-1.9833	
58	20.30	-0.10	4.3392	-8.5386	-0.0566	0.3332	-0.0740	0.3375	-1.9678	
59	20.63	-0.07	4.4098	-8.5454	-0.0864	0.4909	-0.0950	0.3381	-1.9378	
60	20.94	-0.06	4.4948	-8.6434	-0.2066	0.2147	-0.0910	0.3283	-1.9230	
61	21.32	-0.10	4.5486	-8.5178	-0.0490	0.3925	-0.1100	0.3311	-1.8726	
62	21.63	-0.04	4.6345	-8.5370	-0.0164	0.2759	-0.1230	0.3296	-1.8421	
63	21.96	-0.07	4.6784	-8.5435	0.0188	0.0207	-0.1040	0.3215	-1.8262	
64	22.26	-0.07	4.7811	-8.6173	0.0713	0.0202	-0.1080	0.3044	-1.8024	
65	22.56	-0.08	4.8057	-8.6767	0.0608	0.0079	-0.1050	0.2934	-1.8055	
66	22.89	-0.06	4.9102	-8.6810	-0.0493	0.5719	-0.1290	0.2661	-1.7680	
67	23.23	-0.08	5.0365	-8.6619	0.0415	0.3249	-0.1050	0.2582	-1.7198	
68	23.54	-0.10	5.0779	-8.6319	-0.0406	0.0918	-0.0870	0.2374	-1.6999	
69	23.90	-0.07	5.2137	-8.6850	0.0497	-0.0566	-0.0300	0.2472	-1.6658	
70	24.23	-0.06	5.3879	-8.7199	0.0844	-0.1221	-0.0760	0.2559	-1.6184	
71	24.55	-0.07	5.5046	-8.7173	0.0645	-0.1323	-0.0340	0.2624	-1.5836	
72	24.89	-0.08	5.5235	-8.6977	-0.1046	0.2414	-0.1120	0.2686	-1.5747	
73	25.18	-0.07	5.6279	-8.6189	0.1038	0.0057	-0.1050	0.2840	-1.5315	
74	25.48	-0.09	5.7304	-8.6704	0.1815	-0.2331	-0.0850	0.2741	-1.5131	
75	25.79	-0.07	5.8079	-8.5681	-0.0320	0.2078	-0.1070	0.2642	-1.4752	
76	26.10	-0.08	5.9479	-8.5641	0.0551	-0.0451	-0.1030	0.2447	-1.4398	
77	26.37	-0.08	5.9323	-8.6372	-0.0509	0.0643	-0.0700	0.2364	-1.4560	
78	26.67	-0.10	6.0287	-8.6902	0.2585	-0.7708	-0.0320	0.2062	-1.4415	
79	27.00	-0.09	6.1009	-8.5533	0.1690	-0.3726	-0.0430	0.1907	-1.4020	
80	27.33	-0.07	6.2682	-8.6255	0.1846	-0.1654	-0.0590	0.1975	-1.3761	
81	27.64	-0.05	6.4687	-8.6262	0.1993	-0.2730	-0.0580	0.1859	-1.3335	
82	27.97	-0.07	6.6840	-8.7487	0.1759	-0.6212	-0.0300	0.1990	-1.3089	
83	28.27	-0.08	6.7685	-8.6850	0.0955	-0.0807	-0.0680	0.2134	-1.2831	
84	28.61	-0.05	6.8678	-8.6780	0.3745	-0.4322	-0.0530	0.1939	-1.2636	
85	28.92	-0.03	6.9640	-8.6417	0.1568	0.0315	-0.0680	0.1905	-1.2409	
86	29.26	-0.08	7.0802	-8.7094	0.2238	-0.4473	-0.0440	0.1779	-1.2301	
87	29.58	-0.09	7.1767	-8.6545	-0.0010	-0.4825	-0.0140	0.1826	-1.2059	
88	29.82	-0.14	7.1587	-8.6743	-0.0501	-1.2367	-0.0290	0.1528	-1.2117	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 12 1.10 1.7			0.0	B2WOF13	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YCPF1	CNF2	CH2	CB2	XC PF2	YCPF2
1	-2.76	0.02	0.0308	0.0008	-0.0221	0.0244	-0.7187	-0.2187	-0.0232	-0.0946	0.1061	0.4325
2	-2.52	0.03	0.0257	0.0008	-0.0217	0.0292	-0.8458	-0.2148	-0.0221	-0.0890	0.1028	0.4143
3	-1.90	0.09	0.0229	0.0006	-0.0198	0.0262	-0.8633	-0.1734	-0.0176	-0.0653	0.1013	0.3765
4	-1.35	0.03	0.0277	0.0002	-0.0212	0.0081	-0.7643	-0.1110	-0.0128	-0.0511	0.1157	0.4604
5	-0.78	0.03	0.0265	-0.0002	-0.0255	-0.0057	-0.9611	-0.0789	-0.0078	-0.0268	0.0989	0.3396
6	-0.27	0.02	0.0215	0.0003	-0.0206	0.0140	-0.9598	-0.0311	-0.0024	-0.0068	0.0772	0.2175
7	0.28	0.02	0.0315	0.0011	-0.0174	0.0353	-0.5445	0.0133	0.0023	0.0133	0.1749	1.0024
8	0.79	0.03	0.0382	0.0009	-0.0201	0.0236	-0.5254	0.0582	0.0078	0.0318	0.1341	0.5463
9	1.29	0.05	0.0470	0.0016	-0.0149	0.0335	-0.3178	0.0962	0.0119	0.0483	0.1242	0.5028
10	1.77	0.02	0.0404	0.0009	-0.0173	0.0223	-0.4292	0.1230	0.0159	0.0650	0.1295	0.5285
11	2.25	0.0	0.0319	0.0008	-0.0196	0.0259	-0.6135	0.1572	0.0194	0.0770	0.1237	0.4898
12	2.74	0.03	0.0345	0.0017	-0.0134	0.0317	-0.2466	0.1998	0.0244	0.1028	0.1221	0.5145
13	3.20	-0.01	0.0582	0.0016	-0.0153	0.0271	-0.2630	0.2514	0.0287	0.1252	0.1141	0.4980
14	3.68	-0.03	0.0329	0.0001	-0.0240	0.0023	-0.7276	0.2917	0.0312	0.1374	0.1068	0.4711
15	4.11	0.03	0.0402	0.0008	-0.0154	0.0205	-0.3832	0.3268	0.0333	0.1521	0.1020	0.4655
16	4.56	0.03	0.0311	0.0003	-0.0173	0.0097	-0.5575	0.3601	0.0343	0.1609	0.0953	0.4469
17	5.03	-0.01	0.0352	0.0002	-0.0206	0.0064	-0.5844	0.3966	0.0369	0.1802	0.0931	0.4543
18	5.45	0.04	0.0614	0.0004	-0.0103	0.0061	-0.1684	0.4297	0.0379	0.1976	0.0882	0.4599
19	5.89	-0.01	0.0419	-0.0002	-0.0182	-0.0054	-0.4353	0.4445	0.0388	0.2163	0.0801	0.4464
20	6.34	0.03	0.0348	-0.0008	-0.0173	-0.0237	-0.4972	0.5150	0.0391	0.2310	0.0760	0.4486
21	6.82	0.02	0.0395	-0.0010	-0.0145	-0.0247	-0.3681	0.5385	0.0394	0.2455	0.0732	0.4558
22	7.26	0.03	0.0353	-0.0011	-0.0131	-0.0319	-0.3722	0.5709	0.0408	0.2537	0.0715	0.4443
23	7.66	-0.06	0.0375	-0.0012	-0.0114	-0.0320	-0.3041	0.6189	0.0403	0.2758	0.0651	0.4456
24	8.13	-0.05	0.0316	-0.0014	-0.0157	-0.0427	-0.4959	0.6398	0.0400	0.2841	0.0625	0.4441
25	8.56	0.04	0.0208	-0.0021	-0.0154	-0.1010	-0.7389	0.6613	0.0393	0.2947	0.0595	0.4456
26	8.98	-0.01	0.0283	-0.0029	-0.0123	-0.1008	-0.4336	0.6971	0.0393	0.3086	0.0564	0.4427
27	9.35	0.02	0.0237	-0.0029	-0.0160	-0.1235	-0.6752	0.7288	0.0393	0.3262	0.0540	0.4476
28	9.77	-0.02	0.0337	-0.0038	-0.0131	-0.1113	-0.3879	0.7531	0.0392	0.3334	0.0520	0.4427
29	10.15	-0.02	0.0118	-0.0032	-0.0224	-0.2671	-1.8956	0.7676	0.0392	0.3440	0.0511	0.4482
30	10.58	-0.02	0.0231	-0.0045	-0.0143	-0.1949	-0.6192	0.7961	0.0385	0.3519	0.0484	0.4420
31	10.96	-0.04	0.0125	-0.0053	-0.0164	-0.4263	-1.3148	0.8188	0.0381	0.3636	0.0465	0.4440
32	11.35	-0.01	0.0142	-0.0039	-0.0188	-0.2748	-1.3217	0.8227	0.0379	0.3690	0.0461	0.4485
33	11.70	-0.05	0.0140	-0.0053	-0.0188	-0.3752	-1.3454	0.8547	0.0376	0.3775	0.0440	0.4417
34	12.09	-0.05	0.0134	-0.0071	-0.0198	-0.5264	-1.4802	0.8854	0.0367	0.3849	0.0415	0.4347
35	12.43	-0.04	0.0068	-0.0086	-0.0182	-1.2581	-2.6815	0.9054	0.0364	0.3949	0.0402	0.4362
36	12.81	0.02	-0.0017	-0.0086	-0.0209	5.0767	12.2744	0.9434	0.0354	0.4071	0.0375	0.4315
37	13.14	-0.04	0.0064	-0.0098	-0.0164	-1.5361	-2.5574	0.9445	0.0348	0.4122	0.0369	0.4364
38	13.52	0.0	-0.0031	-0.0075	-0.0298	2.4209	9.6235	0.9627	0.0341	0.4193	0.0354	0.4356
39	13.84	0.01	-0.0112	-0.0104	-0.0287	0.9314	2.5654	0.9855	0.0333	0.4340	0.0338	0.4403
40	14.22	-0.05	-0.0118	-0.0113	-0.0315	0.9603	2.7061	1.0020	0.0332	0.4374	0.0331	0.4365
41	14.59	-0.01	-0.0236	-0.0128	-0.0288	0.5438	1.2188	1.0178	0.0321	0.4427	0.0316	0.4350
42	14.92	-0.03	-0.0151	-0.0102	-0.0355	0.6759	2.3465	1.0337	0.0319	0.4513	0.0309	0.4366
43	15.29	0.0	-0.0314	-0.0118	-0.0369	0.3752	1.1740	1.0655	0.0309	0.4556	0.0290	0.4276
44	15.60	-0.04	-0.0434	-0.0140	-0.0377	0.3234	0.8678	1.0834	0.0302	0.4668	0.0279	0.4290
45	15.96	-0.05	-0.0270	-0.0137	-0.0382	0.5059	1.4147	1.0999	0.0289	0.4721	0.0263	0.4292
46	16.28	-0.06	-0.0366	-0.0128	-0.0438	0.3506	1.1966	1.1137	0.0287	0.4775	0.0258	0.4287

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6			12	1.10	1.7	0.0	B2M0F13	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	16.62	-0.01	-0.0510	-0.0158	-0.0418	0.3105	0.8195	1.1378	0.0255	0.4875	0.0224	0.4284	
48	16.96	-0.05	-0.0565	-0.0142	-0.0445	0.2510	0.7863	1.1431	0.0263	0.4887	0.0230	0.4275	
49	17.26	-0.01	-0.0697	-0.0165	-0.0466	0.2369	0.6675	1.1698	0.0232	0.4990	0.0198	0.4265	
50	17.61	-0.01	-0.0677	-0.0172	-0.0493	0.2539	0.7276	1.1894	0.0225	0.5030	0.0189	0.4229	
51	17.93	-0.06	-0.0812	-0.0197	-0.0503	0.2421	0.6189	1.2023	0.0215	0.5087	0.0179	0.4231	
52	18.28	-0.07	-0.0773	-0.0173	-0.0537	0.2243	0.6941	1.2137	0.0211	0.5152	0.0174	0.4245	
53	18.61	-0.07	-0.0766	-0.0167	-0.0527	0.2175	0.6870	1.2297	0.0204	0.5180	0.0166	0.4213	
54	18.96	-0.01	-0.0870	-0.0189	-0.0576	0.2174	0.6620	1.2306	0.0206	0.5180	0.0168	0.4209	
55	19.28	-0.03	-0.0816	-0.0109	-0.0556	0.1767	0.9014	1.2437	0.0203	0.5246	0.0163	0.4218	
56	19.63	-0.04	-0.0755	-0.0134	-0.0639	0.1769	0.8458	1.2556	0.0197	0.5285	0.0157	0.4210	
57	19.96	-0.06	-0.0881	-0.0152	-0.0680	0.1721	0.7714	1.2723	0.0192	0.5295	0.0151	0.4162	
58	20.30	-0.10	-0.0759	-0.0116	-0.0676	0.1533	0.8905	1.2804	0.0188	0.5323	0.0147	0.4157	
59	20.63	-0.07	-0.0932	-0.0124	-0.0796	0.1330	0.8542	1.2797	0.0180	0.5313	0.0141	0.4152	
60	20.94	-0.06	-0.0389	-0.0037	-0.0670	0.0945	1.7214	1.3036	0.0164	0.5419	0.0126	0.4157	
61	21.32	-0.10	-0.0508	-0.0071	-0.0686	0.1403	1.3490	1.2979	0.0160	0.5439	0.0123	0.4191	
62	21.63	-0.04	-0.0594	-0.0078	-0.0655	0.1314	1.1026	1.3238	0.0151	0.5474	0.0114	0.4135	
63	21.96	-0.07	-0.0040	-0.0009	-0.0556	0.2251	1.0832	1.3359	0.0139	0.5528	0.0104	0.4138	
64	22.26	-0.07	0.0	-0.0001	-0.0509	-0.0001	-0.0509	1.3585	0.0128	0.5556	0.0095	0.4090	
65	22.56	-0.08	-0.0189	-0.0042	-0.0534	0.2224	2.8253	1.3614	0.0131	0.5585	0.0097	0.4102	
66	22.89	-0.06	-0.0459	-0.0079	-0.0572	0.1717	1.2461	1.3566	0.0147	0.5511	0.0108	0.4062	
67	23.23	-0.08	-0.0507	-0.0080	-0.0606	0.1569	1.1951	1.3674	0.0146	0.5569	0.0107	0.4073	
68	23.54	-0.10	0.0294	0.0026	-0.0345	0.0868	-1.1736	1.3605	0.0103	0.5509	0.0076	0.4049	
69	23.90	-0.07	-0.0280	-0.0038	-0.0505	0.1367	1.8011	1.3826	0.0129	0.5576	0.0093	0.4033	
70	24.23	-0.06	0.0161	-0.0005	-0.0329	-0.0280	-2.0395	1.3907	0.0102	0.5640	0.0073	0.4056	
71	24.55	-0.07	0.0531	0.0028	-0.0307	0.0523	-3.5163	1.4111	0.0108	0.5740	0.0077	0.4068	
72	24.89	-0.08	-0.0156	-0.0043	-0.0521	0.2742	3.3396	1.4184	0.0102	0.5835	0.0072	0.4114	
73	25.18	-0.07	-0.0238	-0.0043	-0.0558	0.1797	2.3416	1.4245	0.0090	0.5821	0.0063	0.4087	
74	25.48	-0.09	0.0128	-0.0010	-0.0320	-0.0762	-2.4949	1.4287	0.0086	0.5831	0.0060	0.4081	
75	25.79	-0.07	-0.0089	-0.0011	-0.0385	0.1265	4.3220	1.4349	0.0073	0.5835	0.0051	0.4066	
76	26.10	-0.08	0.0345	0.0030	-0.0220	0.0870	-0.6378	1.4440	0.0058	0.5917	0.0040	0.4098	
77	26.37	-0.08	0.0652	0.0042	-0.0088	0.0645	-0.1346	1.4524	0.0044	0.5891	0.0030	0.4056	
78	26.67	-0.10	0.1103	0.0080	0.0094	0.0729	0.0855	1.4568	0.0015	0.5879	0.0010	0.4035	
79	27.00	-0.09	0.0657	0.0033	-0.0165	0.0503	-0.2513	1.4566	0.0012	0.5880	0.0008	0.4031	
80	27.33	-0.07	0.1013	0.0065	0.0040	0.0638	0.0397	1.4839	0.0014	0.5962	0.0010	0.4018	
81	27.64	-0.05	0.0613	0.0042	-0.0128	0.0686	-0.2084	1.4825	-0.0006	0.6003	-0.0004	0.4049	
82	27.97	-0.07	0.1057	0.0066	0.0180	0.0625	0.1703	1.5002	0.0005	0.6120	0.0003	0.4079	
83	28.27	-0.08	0.0472	0.0006	-0.0212	0.0127	-0.4486	1.5052	0.0006	0.6128	0.0005	0.4071	
84	28.61	-0.05	0.0985	0.0026	-0.0114	0.0259	0.1157	1.5123	0.0002	0.6176	0.0001	0.4084	
85	28.92	-0.03	0.0307	-0.0026	-0.0276	-0.0831	-0.8981	1.5222	-0.0008	0.6150	-0.0005	0.4040	
86	29.26	-0.08	0.1086	0.0035	0.0145	0.0318	0.1332	1.5243	-0.0042	0.6128	-0.0028	0.4020	
87	29.58	-0.09	0.0905	0.0014	-0.0040	0.0149	-0.0447	1.5288	-0.0042	0.6179	-0.0028	0.4042	
88	29.82	-0.14	0.0806	0.0011	0.0026	0.0130	0.0317	1.5282	-0.0044	0.6197	-0.0029	0.4055	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			12	1.10	1.7	0.0	0.82WOF13	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	-2.76	0.02	0.0060	0.0020	0.0087	0.3252	1.4499	-0.2726	-0.0229	-0.0702	0.0840	0.2576
2	-2.52	0.03	0.0086	0.0020	0.0085	0.2269	0.9344	-0.2632	-0.0226	-0.0641	0.0859	0.2435
3	-1.90	0.04	-0.0003	0.0021	0.0063	-7.0044	-21.0001	-0.2008	-0.0175	-0.0456	0.0871	0.2271
4	-1.35	0.03	0.0161	0.0025	0.0099	0.1538	0.6127	-0.1641	-0.0132	-0.0251	0.0805	0.1527
5	-0.78	0.03	0.0081	0.0027	0.0099	0.3335	1.2221	-0.1107	-0.0080	-0.0054	0.0719	0.0484
6	-0.27	0.02	0.0118	0.0030	0.0114	0.2544	0.9688	-0.0644	-0.0029	0.0163	0.0454	-0.2537
7	0.28	0.02	0.0115	0.0032	0.0124	0.2806	1.0810	-0.0331	0.0008	0.0349	-0.0227	-1.0535
8	0.79	0.03	0.0249	0.0027	0.0113	0.1085	0.4537	0.0124	0.0053	0.0521	0.4297	4.1961
9	1.29	0.05	0.0080	0.0023	0.0122	0.2508	1.5207	0.0452	0.0089	0.0692	0.1976	1.5301
10	1.77	0.02	0.0129	0.0029	0.0127	0.2269	0.9644	0.0820	0.0124	0.0829	0.1510	1.0100
11	2.25	0.0	0.0170	0.0028	0.0127	0.1633	0.7450	0.1221	0.0168	0.1015	0.1378	0.8316
12	2.74	0.03	0.0163	0.0035	0.0155	0.2118	0.9528	0.1634	0.0212	0.1237	0.1296	0.7570
13	3.20	-0.01	0.0241	0.0037	0.0147	0.1526	0.6112	0.2116	0.0249	0.1412	0.1178	0.6670
14	3.68	-0.03	0.0114	0.0029	0.0154	0.2567	1.3508	0.2547	0.0276	0.1588	0.1082	0.6235
15	4.11	0.03	0.0154	0.0032	0.0135	0.2047	0.8787	0.2822	0.0235	0.1756	0.1046	0.6222
16	4.56	0.03	0.0104	0.0044	0.0187	0.4257	1.7948	0.3254	0.0306	0.1890	0.0942	0.5808
17	5.03	-0.01	0.0211	0.0041	0.0172	0.1956	0.8166	0.3568	0.0323	0.2126	0.0900	0.5926
18	5.45	0.04	0.0375	0.0066	0.0246	0.1761	0.6559	0.3972	0.0333	0.2262	0.0837	0.5695
19	5.89	-0.01	0.0189	0.0051	0.0213	0.2700	1.1269	0.4418	0.0343	0.2482	0.0777	0.5617
20	6.34	0.03	0.0218	0.0053	0.0182	0.2410	0.8332	0.4697	0.0343	0.2580	0.0731	0.5492
21	6.82	0.02	0.0185	0.0059	0.0223	0.3164	1.2035	0.5077	0.0342	0.2747	0.0674	0.5411
22	7.26	0.03	0.0325	0.0058	0.0248	0.1778	0.7640	0.5293	0.0355	0.2832	0.0671	0.5351
23	7.66	-0.06	0.0228	0.0053	0.0206	0.2337	0.9034	0.5818	0.0352	0.3064	0.0605	0.5267
24	8.13	-0.05	0.0296	0.0065	0.0252	0.2180	0.8501	0.6109	0.0349	0.3207	0.0572	0.5250
25	8.56	0.04	0.0312	0.0064	0.0229	0.2045	0.7339	0.6291	0.0345	0.3302	0.0548	0.5248
26	8.98	-0.01	0.0185	0.0058	0.0222	0.3124	1.1981	0.6610	0.0337	0.3409	0.0510	0.5158
27	9.35	0.02	0.0206	0.0066	0.0237	0.3206	1.1487	0.7078	0.0334	0.3610	0.0472	0.5101
28	9.77	-0.02	0.0233	0.0065	0.0228	0.2802	0.9770	0.7256	0.0330	0.3680	0.0455	0.5072
29	10.15	-0.02	0.0101	0.0050	0.0186	0.4904	1.8382	0.7505	0.0331	0.3756	0.0441	0.5005
30	10.58	-0.02	0.0192	0.0065	0.0242	0.3361	1.2603	0.7695	0.0321	0.3862	0.0418	0.5019
31	10.96	-0.04	0.0327	0.0075	0.0267	0.2295	0.8164	0.7939	0.0313	0.4030	0.0394	0.5076
32	11.35	-0.01	0.0287	0.0061	0.0211	0.2118	0.7339	0.8145	0.0311	0.4073	0.0382	0.5000
33	11.70	-0.05	0.0370	0.0086	0.0299	0.2333	0.8089	0.8379	0.0309	0.4154	0.0369	0.4957
34	12.09	-0.05	0.0270	0.0080	0.0290	0.2946	1.0740	0.8661	0.0300	0.4258	0.0345	0.4905
35	12.43	-0.04	0.0326	0.0076	0.0257	0.2325	0.7872	0.8859	0.0294	0.4361	0.0331	0.4922
36	12.81	0.02	0.0325	0.0069	0.0335	0.2748	1.0317	0.9190	0.0287	0.4511	0.0312	0.4909
37	13.14	-0.04	0.0309	0.0077	0.0288	0.2502	0.9319	0.9370	0.0277	0.4579	0.0296	0.4887
38	13.52	0.0	0.0307	0.0080	0.0291	0.2591	0.9488	0.9399	0.0276	0.4599	0.0293	0.4893
39	13.84	0.01	0.0380	0.0089	0.0306	0.2330	0.8043	0.9610	0.0264	0.4748	0.0269	0.4640
40	14.22	-0.05	0.0416	0.0095	0.0311	0.2291	0.7467	0.9966	0.0262	0.4805	0.0263	0.4821
41	14.59	-0.01	0.0433	0.0102	0.0366	0.2357	0.8459	1.0145	0.0260	0.4861	0.0256	0.4792
42	14.92	-0.03	0.0380	0.0086	0.0306	0.2271	0.8043	1.0236	0.0252	0.4944	0.0246	0.4831
43	15.29	0.0	0.0448	0.0101	0.0351	0.2261	0.7841	1.0371	0.0243	0.5038	0.0235	0.4857
44	15.60	-0.04	0.0382	0.0087	0.0292	0.2279	0.7652	1.0607	0.0240	0.5076	0.0227	0.4786
45	15.96	-0.05	0.0440	0.0094	0.0331	0.2132	0.7514	1.0768	0.0240	0.5128	0.0222	0.4762
46	16.28	-0.06	0.0503	0.0095	0.0346	0.1895	0.6871	1.0892	0.0229	0.5217	0.0210	0.4790

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 12 1.10 1.7				0.0	B2WOF13	0.0	0	0	0	0	FIXED	
PC1AT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.62	-0.01	0.0499	0.0099	0.0359	0.1985	0.7200	1.1074	0.0218	0.5321	0.0197	0.4805
48	16.96	-0.05	0.0472	0.0098	0.0353	0.2643	0.9488	1.1195	0.0219	0.5312	0.0196	0.4745
49	17.26	-0.01	0.0455	0.0110	0.0381	0.2425	0.8365	1.1486	0.0198	0.5436	0.0173	0.4733
50	17.61	-0.01	0.0525	0.0098	0.0374	0.1873	0.7123	1.1616	0.0191	0.5507	0.0164	0.4740
51	17.93	-0.06	0.0555	0.0094	0.0354	0.1690	0.6377	1.1807	0.0176	0.5577	0.0149	0.4724
52	18.28	-0.07	0.0451	0.0095	0.0370	0.2097	0.8210	1.1884	0.0171	0.5618	0.0144	0.4727
53	18.61	-0.07	0.0502	0.0095	0.0367	0.1899	0.7316	1.2034	0.0166	0.5666	0.0138	0.4708
54	18.96	-0.01	0.0553	0.0095	0.0377	0.1710	0.6822	1.2148	0.0168	0.5706	0.0138	0.4697
55	19.28	-0.03	0.0555	0.0096	0.0365	0.1731	0.6575	1.2162	0.0173	0.5720	0.0142	0.4704
56	19.63	-0.04	0.0551	0.0101	0.0387	0.1825	0.7016	1.2333	0.0166	0.5795	0.0135	0.4699
57	19.96	-0.06	0.0549	0.0104	0.0402	0.1886	0.7321	1.2535	0.0161	0.5831	0.0129	0.4652
58	20.30	-0.10	0.0672	0.0113	0.0433	0.1686	0.6442	1.2667	0.0155	0.5864	0.0123	0.4629
59	20.63	-0.07	0.0639	0.0116	0.0438	0.1820	0.6853	1.2608	0.0149	0.5844	0.0119	0.4635
60	20.94	-0.06	0.0725	0.0125	0.0479	0.1718	0.6601	1.2710	0.0155	0.5858	0.0122	0.4609
61	21.32	-0.10	0.0714	0.0122	0.0447	0.1703	0.6259	1.2409	0.0150	0.5611	0.0121	0.4521
62	21.63	-0.04	0.0805	0.0137	0.0507	0.1706	0.6289	1.2473	0.0128	0.5625	0.0102	0.4510
63	21.96	-0.07	0.0713	0.0122	0.0464	0.1705	0.6502	1.2437	0.0131	0.5625	0.0106	0.4523
64	22.26	-0.07	0.0644	0.0125	0.0474	0.1534	0.7432	1.2441	0.0118	0.5636	0.0095	0.4530
65	22.56	-0.08	0.0671	0.0111	0.0427	0.1655	0.6357	1.2502	0.0097	0.5646	0.0077	0.4516
66	22.89	-0.06	0.0632	0.0110	0.0453	0.1746	0.7161	1.2643	0.0062	0.5656	0.0049	0.4473
67	23.23	-0.08	0.0677	0.0107	0.0434	0.1574	0.6405	1.2764	0.0056	0.5710	0.0044	0.4473
68	23.56	-0.10	0.0747	0.0121	0.0472	0.1617	0.6317	1.2718	0.0059	0.5678	0.0047	0.4464
69	23.90	-0.07	0.0750	0.0126	0.0475	0.1681	0.6332	1.2805	0.0047	0.5772	0.0037	0.4486
70	24.23	-0.06	0.0776	0.0121	0.0483	0.1557	0.6219	1.2934	0.0036	0.5803	0.0028	0.4486
71	24.55	-0.07	0.0797	0.0128	0.0491	0.1610	0.6155	1.2998	0.0034	0.5847	0.0026	0.4498
72	24.89	-0.08	0.0787	0.0136	0.0526	0.1726	0.6674	1.3170	0.0019	0.5940	0.0014	0.4510
73	25.18	-0.07	0.0573	0.0104	0.0441	0.1807	0.7695	1.3320	0.0014	0.5955	0.0011	0.4471
74	25.48	-0.09	0.0844	0.0128	0.0496	0.1512	0.5868	1.3302	0.0002	0.5936	0.0001	0.4463
75	25.79	-0.07	0.0770	0.0122	0.0472	0.1589	0.6124	1.3411	-0.0005	0.5978	-0.0003	0.4457
76	26.10	-0.08	0.0793	0.0140	0.0537	0.1770	0.6762	1.3433	-0.0011	0.6017	-0.0008	0.4479
77	26.37	-0.08	0.0664	0.0110	0.0415	0.1661	0.6254	1.3458	-0.0008	0.6031	-0.0006	0.4482
78	26.67	-0.10	0.0888	0.0143	0.0549	0.1614	0.6181	1.3399	-0.0026	0.5999	-0.0019	0.4477
79	27.00	-0.09	0.0780	0.0128	0.0518	0.1645	0.6640	1.3501	-0.0031	0.6045	-0.0023	0.4477
80	27.33	-0.07	0.0834	0.0134	0.0528	0.1602	0.6330	1.3556	-0.0036	0.6117	-0.0027	0.4512
81	27.64	-0.05	0.0752	0.0119	0.0485	0.1577	0.6444	1.3738	-0.0047	0.6148	-0.0034	0.4475
82	27.97	-0.07	0.0779	0.0123	0.0475	0.1580	0.6092	1.3906	-0.0047	0.6222	-0.0033	0.4475
83	28.27	-0.08	0.0780	0.0119	0.0474	0.1520	0.6076	1.4059	-0.0055	0.6276	-0.0039	0.4464
84	28.61	-0.05	0.0773	0.0141	0.0573	0.1825	0.7407	1.4046	-0.0073	0.6276	-0.0052	0.4468
85	28.92	-0.03	0.0781	0.0127	0.0520	0.1624	0.6648	1.4138	-0.0084	0.6306	-0.0059	0.4460
86	29.26	-0.08	0.0556	0.0111	0.0476	0.1598	0.8548	1.3914	-0.0088	0.6252	-0.0063	0.4494
87	29.58	-0.09	0.0791	0.0118	0.0471	0.1490	0.5949	1.4135	-0.0068	0.6308	-0.0062	0.4463
88	29.82	-0.14	0.1196	0.0176	0.0656	0.1470	0.5483	1.4037	-0.0106	0.6303	-0.0075	0.4490

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	13	0.85	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.75	0.03	-0.4181	0.9963	-0.0207	-0.1320	0.0080	0.1674	-2.3828		
2	-2.48	0.05	-0.3741	0.9186	0.0865	-0.0321	0.0050	0.1690	-2.4559		
3	-1.91	0.05	-0.2850	0.8799	0.0619	-0.0367	0.0100	0.1724	-2.3860		
4	-1.32	0.04	-0.1979	0.4510	-0.0348	-0.0863	0.0090	0.1742	-2.2792		
5	-0.78	0.05	-0.1341	0.2557	0.0559	-0.0393	0.0100	0.1736	-1.9071		
6	-0.22	0.04	-0.0316	0.0742	0.0087	-0.0212	0.0100	0.1763	-2.3494		
7	0.29	0.03	0.0428	-0.0799	-0.0325	-0.0345	0.0110	0.1760	-1.8673		
8	0.83	0.05	0.1042	-0.2848	0.0782	-0.0475	0.0120	0.1781	-2.7340		
9	1.31	0.03	0.1812	-0.4466	0.0760	-0.0454	0.0110	0.1766	-2.4651		
10	1.81	0.04	0.2479	-0.6640	0.0570	-0.0278	0.0100	0.1811	-2.6787		
11	2.28	0.02	0.3479	-0.8220	0.0137	-0.0752	0.0100	0.1767	-2.3629		
12	2.75	0.02	0.4258	-1.0371	0.0175	-0.0275	0.0110	0.1772	-2.4355		
13	3.22	0.03	0.4829	-1.2300	0.0665	0.0009	0.0120	0.1834	-2.5470		
14	3.69	0.03	0.5822	-1.4420	0.0765	-0.0681	0.0150	0.1754	-2.4768		
15	4.16	0.02	0.6709	-1.6642	-0.0124	-0.0034	0.0190	0.1777	-2.4805		
16	4.61	0.02	0.7448	-1.8456	-0.0044	-0.0118	0.0170	0.1736	-2.4834		
17	5.05	0.03	0.8182	-2.0933	0.0385	0.0101	0.0130	0.1800	-2.5585		
18	5.51	0.02	0.9011	-2.2984	0.0340	-0.0686	0.0180	0.1734	-2.5507		
19	5.95	0.02	0.9802	-2.4931	0.0277	-0.0198	0.0170	0.1753	-2.5435		
20	6.38	0.03	1.0588	-2.7271	0.0871	-0.0364	0.0150	0.1762	-2.5757		
21	6.84	0.02	1.1126	-2.8594	-0.0160	-0.0164	0.0160	0.1737	-2.5701		
22	7.29	0.01	1.2465	-3.1610	-0.0101	-0.1188	0.0160	0.1694	-2.5358		
23	7.70	0.02	1.3094	-3.3350	0.0165	-0.0581	0.0160	0.1732	-2.5469		
24	8.16	0.02	1.4012	-3.6105	0.0532	-0.0745	0.0140	0.1678	-2.5767		
25	8.56	0.02	1.4668	-3.7923	0.0284	-0.0032	0.0130	0.1664	-2.5854		
26	8.99	0.02	1.5719	-4.0294	-0.0006	0.0398	0.0130	0.1643	-2.5634		
27	9.38	0.03	1.6381	-4.1861	0.0446	-0.0124	0.0150	0.1644	-2.5555		
28	9.79	0.01	1.7101	-4.3648	0.0382	0.0785	0.0160	0.1621	-2.5524		
29	10.19	0.01	1.8147	-4.5933	-0.0071	0.0409	0.0120	0.1568	-2.5312		
30	10.59	0.01	1.8685	-4.7656	0.0626	0.0544	0.0220	0.1563	-2.5505		
31	10.96	0.0	1.9311	-4.8793	0.0153	0.0606	0.0140	0.1530	-2.5266		
32	11.35	-0.01	2.0600	-5.1837	-0.0795	0.0143	0.0170	0.1544	-2.5163		
33	11.70	0.0	2.1126	-5.2804	-0.0384	0.1497	0.0170	0.1512	-2.4994		
34	12.06	0.01	2.2108	-5.5128	0.0544	0.0428	0.0050	0.1505	-2.4936		
35	12.43	0.01	2.2680	-5.6809	0.0233	0.0434	0.0120	0.1499	-2.5048		
36	12.78	0.01	2.3704	-5.8212	0.0085	0.1705	0.0150	0.1453	-2.4558		
37	13.13	0.0	2.4541	-6.0464	-0.0613	0.1308	0.0130	0.1423	-2.4638		
38	13.49	0.01	2.5249	-6.1375	0.0215	0.0769	0.0020	0.1414	-2.4308		
39	13.84	0.0	2.5695	-6.2949	-0.0284	0.1497	0.0180	0.1399	-2.4499		
40	14.20	0.01	2.6485	-6.3825	0.0131	0.1756	0.0150	0.1348	-2.4099		
41	14.57	0.01	2.7210	-6.4981	0.0217	0.0766	0.0	0.1324	-2.3881		
42	14.89	0.0	2.7832	-6.6252	0.0217	0.0406	0.0010	0.1310	-2.3804		
43	15.26	0.0	2.8754	-6.7672	-0.0073	0.0762	0.0070	0.1276	-2.3535		
44	15.58	0.0	2.9434	-6.8914	-0.0547	0.2216	0.0210	0.1279	-2.3413		
45	15.89	-0.01	3.0005	-6.9573	-0.0901	0.1151	0.0010	0.1306	-2.3187		
46	16.24	0.0	3.0591	-6.9964	-0.0274	0.0694	-0.0180	0.1313	-2.2871		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	13.0	85.1	7	0.0	22NOV12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.55	0.01	3.1158	-7.1267	0.0286	0.0989	-0.0090	0.1339	-2.2873	
48	16.89	0.0	3.1890	-7.2212	0.0165	0.0029	-0.0230	0.1342	-2.2644	
49	17.19	-0.01	3.2667	-7.3590	-0.0128	-0.0071	-0.0090	0.1367	-2.2527	
50	17.54	-0.01	3.3382	-7.3821	-0.0415	0.0261	-0.0210	0.1354	-2.2114	
51	17.87	0.0	3.4196	-7.4610	0.0166	0.1217	-0.0070	0.1409	-2.1819	
52	18.19	0.0	3.4845	-7.5780	-0.0144	0.1221	-0.0070	0.1446	-2.1747	
53	18.54	-0.01	3.5440	-7.6923	-0.0718	0.1445	-0.0100	0.1415	-2.1705	
54	18.85	-0.01	3.6131	-7.8560	-0.0163	0.0118	-0.0110	0.1353	-2.1743	
55	19.16	-0.01	3.6946	-8.0381	-0.0655	0.1327	-0.0070	0.1348	-2.1756	
56	19.49	-0.01	3.7692	-8.1875	-0.0593	0.2020	-0.0010	0.1262	-2.1607	
57	19.82	-0.02	3.8646	-8.2521	-0.0179	0.1410	-0.0200	0.1151	-2.1353	
58	20.15	-0.02	3.8919	-8.3163	-0.1616	0.3912	0.0040	0.1129	-2.1368	
59	20.50	-0.01	3.9598	-8.3943	0.0027	0.2452	-0.0160	0.0980	-2.1199	
60	20.80	-0.03	4.0224	-8.5229	-0.1370	0.0878	-0.0120	0.0947	-2.1189	
61	21.14	-0.02	4.0643	-8.5146	-0.0650	0.1776	-0.0270	0.0955	-2.0950	
62	21.45	-0.03	4.1839	-8.7440	0.0464	-0.1529	-0.0230	0.0785	-2.0899	
63	21.73	-0.03	4.2123	-8.8389	-0.0524	-0.0216	-0.0260	0.0778	-2.0983	
64	22.06	-0.02	4.2635	-8.9456	0.0797	-0.0776	-0.0270	0.0747	-2.0884	
65	22.36	-0.02	4.3102	-8.9459	0.1249	-0.2038	-0.0110	0.0760	-2.0755	
66	22.68	-0.03	4.2715	-8.7848	0.0324	-0.1323	-0.0290	0.0815	-2.0566	
67	22.97	-0.04	4.3058	-8.7228	0.0781	-0.4693	-0.0380	0.0861	-2.0258	
68	23.30	-0.02	4.3790	-8.7363	0.0415	-0.0441	-0.0590	0.0801	-1.9950	
69	23.59	-0.02	4.3821	-8.7446	0.0757	-0.1680	0.0050	0.0753	-1.9955	
70	23.91	-0.03	4.3153	-8.6111	0.0139	-0.0595	-0.0040	0.0785	-1.9955	
71	24.22	-0.03	4.3737	-8.6329	0.0772	0.0029	0.0540	0.0693	-1.9738	
72	24.53	-0.04	4.3769	-8.5154	0.1707	-0.3709	-0.1120	0.0619	-1.9455	
73	24.85	-0.03	4.4333	-8.4484	0.1715	-0.2776	-0.0270	0.0472	-1.9056	
74	25.12	-0.04	4.5133	-8.6043	0.1527	-0.3467	-0.1070	0.0446	-1.9064	
75	25.42	-0.04	4.5625	-8.6382	0.0901	-0.2391	-0.0600	0.0378	-1.8933	
76	25.71	-0.03	4.6548	-8.7004	0.1052	-0.1363	-0.0890	0.0177	-1.8691	
77	26.00	-0.03	4.7091	-8.8584	0.2436	-0.4990	0.0700	0.0198	-1.8811	
78	26.28	-0.04	4.7533	-8.6463	0.1262	-0.3326	-0.0840	0.0158	-1.8190	
79	26.58	-0.03	4.7797	-8.7633	0.2535	-0.5108	0.0110	0.0015	-1.7916	
80	26.91	-0.03	4.8768	-8.6612	0.4863	-1.1128	0.1050	-0.0151	-1.7719	
81	27.19	-0.04	4.9845	-8.8191	0.1243	-0.3510	-0.0550	-0.0293	-1.7693	
82	27.51	-0.04	5.0252	-8.6861	0.2274	-0.5323	0.0210	-0.0263	-1.7285	
83	27.80	-0.03	5.0242	-8.6507	0.2375	-0.3385	-0.0930	-0.0299	-1.7218	
84	28.09	-0.05	5.1344	-8.6770	0.2352	-0.7222	-0.0610	-0.0472	-1.6900	
85	28.40	-0.04	5.1525	-8.5864	0.1380	-0.2212	-0.0680	-0.0503	-1.6664	
86	28.72	-0.04	5.2388	-8.6082	0.2438	-0.5103	-0.0450	-0.0589	-1.6432	
87	29.03	-0.05	5.2942	-8.4578	0.1763	-0.3998	-0.0790	-0.0723	-1.5975	
88	29.34	-0.04	5.3246	-8.2983	0.2503	-0.5324	-0.0830	-0.0793	-1.5585	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 13 0.85 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CHI	Cb1	XC PF1	YC PF1	LCF2	CH2	Cb2	XC PF2	YC PF2
1	-2.75	0.03	0.0030	-0.0003	0.0097	-0.1000	3.2332	-0.1464	-0.0025	-0.0650	0.0174	0.4439
2	-2.48	0.05	0.0133	-0.0001	0.0084	-0.0113	0.6140	-0.1357	-0.0024	-0.0601	0.0177	0.4430
3	-1.91	0.05	0.0005	-0.0004	0.0032	-0.8998	6.3332	-0.1036	-0.0014	-0.0459	0.0140	0.4433
4	-1.32	0.04	0.0014	-0.0004	0.0085	-0.3214	6.0475	-0.0680	-0.0006	-0.0326	0.0096	0.4788
5	-0.78	0.05	0.0027	-0.0005	0.0097	-0.1852	3.5425	-0.0379	0.0001	-0.0177	-0.0026	0.4678
6	-0.22	0.04	-0.0004	-0.0005	0.0081	1.2498	-20.1668	-0.0135	0.0005	-0.0072	-0.0370	0.5332
7	0.29	0.03	-0.0019	-0.0004	0.0085	0.2368	-4.3510	0.0227	0.0011	0.0037	0.0484	0.1614
8	0.83	0.05	0.0078	-0.0004	0.0100	-0.0513	1.2819	0.0448	0.0017	0.0178	0.0391	0.3979
9	1.31	0.03	0.0001	-0.0004	0.0060	-3.9993	60.3332	0.0724	0.0027	0.0300	0.0380	0.4147
10	1.81	0.04	0.0009	-0.0006	0.0088	-0.7221	9.7777	0.1053	0.0033	0.0418	0.0318	0.3968
11	2.28	0.02	0.0025	-0.0006	0.0098	-0.2400	3.9332	0.1310	0.0040	0.0552	0.0309	0.4218
12	2.75	0.02	0.0023	-0.0007	0.0098	-0.3260	4.2463	0.1604	0.0049	0.0671	0.0305	0.4186
13	3.22	0.03	0.0022	-0.0005	0.0126	-0.2272	5.7423	0.1681	0.0062	0.0791	0.0330	0.4204
14	3.69	0.03	0.0055	-0.0012	0.0163	-0.2272	2.9996	0.2310	0.0073	0.0916	0.0316	0.3964
15	4.16	0.02	-0.0021	-0.0012	0.0121	0.5551	-5.7020	0.2502	0.0084	0.1024	0.0338	0.4092
16	4.61	0.02	0.0014	-0.0011	0.0117	-0.8213	8.3332	0.2832	0.0099	0.1127	0.0349	0.3978
17	5.05	0.03	0.0003	-0.0016	0.0142	-5.3324	47.3332	0.3117	0.0108	0.1231	0.0348	0.3948
18	5.51	0.02	0.0005	-0.0016	0.0119	-3.2994	23.7332	0.3483	0.0115	0.1344	0.0330	0.3857
19	5.95	0.02	-0.0050	-0.0019	0.0134	0.3799	-2.6868	0.3764	0.0120	0.1451	0.0319	0.3855
20	6.38	0.03	-0.0002	-0.0021	0.0120	10.4581	-60.1666	0.4031	0.0120	0.1553	0.0299	0.3853
21	6.84	0.02	0.0003	-0.0025	0.0149	-8.4985	49.6065	0.4261	0.0130	0.1661	0.0306	0.3898
22	7.29	0.01	0.0057	-0.0031	0.0172	-0.5438	3.0174	0.4594	0.0135	0.1774	0.0294	0.3861
23	7.70	0.02	-0.0035	-0.0028	0.0154	0.8141	-4.4096	0.4857	0.0140	0.1892	0.0288	0.3896
24	8.10	0.02	-0.0042	-0.0025	0.0126	0.6070	-3.0001	0.5163	0.0144	0.1970	0.0279	0.3816
25	8.56	0.02	-0.0016	-0.0030	0.0124	1.8747	-7.7293	0.5431	0.0155	0.2062	0.0286	0.3796
26	8.99	0.02	-0.0119	-0.0033	0.0115	0.2773	-1.0029	0.5682	0.0167	0.2155	0.0294	0.3793
27	9.38	0.03	-0.0081	-0.0039	0.0127	0.4876	-1.5680	0.5940	0.0176	0.2218	0.0296	0.3734
28	9.79	0.01	-0.0037	-0.0041	0.0140	1.1214	-3.7749	0.6180	0.0184	0.2282	0.0298	0.3693
29	10.19	0.01	-0.0106	-0.0045	0.0125	0.4292	-1.1762	0.6432	0.0192	0.2375	0.0299	0.3693
30	10.59	0.01	-0.0087	-0.0051	0.0135	0.5918	-1.7817	0.6656	0.0202	0.2439	0.0303	0.3664
31	10.96	0.0	-0.0127	-0.0055	0.0153	0.4369	-1.2022	0.6869	0.0204	0.2478	0.0298	0.3607
32	11.35	-0.01	-0.0150	-0.0053	0.0114	0.3533	-0.7601	0.7143	0.0216	0.2568	0.0303	0.3595
33	11.70	0.0	-0.0116	-0.0059	0.0148	0.5128	-1.2784	0.7366	0.0224	0.2637	0.0304	0.3581
34	12.06	0.01	-0.0221	-0.0041	0.0055	0.1855	-0.2505	0.7611	0.0237	0.2704	0.0311	0.3553
35	12.43	0.01	-0.0189	-0.0065	0.0141	0.3439	-0.7462	0.7780	0.0238	0.2761	0.0306	0.3549
36	12.78	0.01	-0.0234	-0.0065	0.0109	0.2799	-0.4659	0.8005	0.0259	0.2817	0.0323	0.3520
37	13.13	0.0	-0.0243	-0.0070	0.0111	0.2901	-0.4569	0.8206	0.0267	0.2857	0.0325	0.3482
38	13.49	0.01	-0.0276	-0.0056	0.0041	0.2029	-0.1487	0.8380	0.0281	0.2909	0.0335	0.3472
39	13.84	0.0	-0.0308	-0.0091	0.0110	0.2954	-0.3583	0.8507	0.0291	0.2923	0.0342	0.3436
40	14.20	0.01	-0.0245	-0.0080	0.0138	0.3265	-0.5647	0.8685	0.0314	0.2955	0.0362	0.3402
41	14.57	0.01	-0.0353	-0.0077	0.0105	0.2195	-0.2985	0.8796	0.0327	0.2990	0.0372	0.3399
42	14.89	0.0	-0.0452	-0.0053	0.0009	0.1183	-0.0208	0.9045	0.0355	0.3012	0.0392	0.3330
43	15.26	0.0	-0.0376	-0.0091	0.0113	0.2433	-0.2498	0.9157	0.0359	0.3040	0.0392	0.3320
44	15.58	0.0	-0.0315	-0.0109	0.0184	0.3460	-0.5642	0.9241	0.0362	0.3082	0.0392	0.3335
45	15.89	-0.01	-0.0367	-0.0098	0.0091	0.2670	-0.2472	0.9475	0.0381	0.3104	0.0402	0.3276
46	16.24	0.0	-0.0317	-0.0087	0.0094	0.2760	-0.2977	0.9648	0.0389	0.3150	0.0403	0.3265

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST: PART MACH RX10-6												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 13 0.85 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.55	0.01	-0.0358	-0.0138	0.0165	0.3868	-0.4601	0.9752	0.0388	0.3180	0.0398	0.3260
48	16.89	0.0	-0.0365	-0.0123	0.0151	0.3369	-0.4147	0.9936	0.0399	0.3200	0.0402	0.3220
49	17.19	-0.01	-0.0331	-0.0227	0.0393	0.6857	-1.1864	1.0012	0.0377	0.3244	0.0377	0.3240
50	17.54	-0.01	-0.0507	-0.0065	0.0012	0.1292	-0.0238	0.9989	0.0490	0.3152	0.0491	0.3135
51	17.87	0.0	-0.0528	-0.0123	0.0133	0.2339	-0.2520	1.0110	0.0471	0.3188	0.0466	0.3153
52	18.19	0.0	-0.0566	-0.0044	-0.0025	0.0706	0.0435	1.0129	0.0492	0.3176	0.0486	0.3136
53	18.54	-0.01	-0.0610	-0.0070	0.0022	0.1147	-0.0356	1.0206	0.0488	0.3214	0.0478	0.3149
54	18.85	-0.01	-0.0559	-0.0031	-0.0030	0.0563	0.0541	1.0333	0.0459	0.3248	0.0445	0.3143
55	19.16	-0.01	-0.0587	-0.0057	0.0005	0.0979	-0.0092	1.0417	0.0452	0.3277	0.0434	0.3146
56	19.49	-0.01	-0.0704	-0.0143	0.0127	0.2031	-0.1810	1.0578	0.0455	0.3325	0.0430	0.3143
57	19.82	-0.02	-0.0603	-0.0038	-0.0021	0.0630	0.0347	1.0722	0.0462	0.3332	0.0431	0.3107
58	20.15	-0.02	-0.0768	-0.0198	0.0206	0.2584	-0.2683	1.0724	0.0453	0.3361	0.0422	0.3134
59	20.50	-0.01	-0.0593	-0.0078	0.0058	0.1315	-0.0985	1.0945	0.0471	0.3371	0.0430	0.3080
60	20.80	-0.03	-0.0610	-0.0059	0.0023	0.0575	-0.0373	1.1039	0.0484	0.3405	0.0438	0.3085
61	21.14	-0.02	-0.0557	-0.0139	0.0175	0.2495	-0.3149	1.1142	0.0472	0.3433	0.0423	0.3081
62	21.45	-0.03	-0.0428	0.0009	-0.0050	-0.0210	0.1159	1.1236	0.0491	0.3413	0.0437	0.3038
63	21.73	-0.03	-0.0623	-0.0105	0.0077	0.1643	-0.1242	1.1299	0.0482	0.3478	0.0426	0.3078
64	22.06	-0.02	-0.0483	0.0024	-0.0077	-0.0507	0.1593	1.1351	0.0481	0.3427	0.0424	0.3019
65	22.36	-0.02	-0.0091	0.0105	-0.0072	-1.1536	0.1948	1.1174	0.0459	0.3331	0.0411	0.2981
66	22.68	-0.03	-0.0306	0.0092	-0.0115	-0.3006	0.3757	1.1083	0.0439	0.3252	0.0396	0.2934
67	22.97	-0.04	-0.0324	0.0007	0.0025	-0.0231	-0.0773	1.1221	0.0433	0.3341	0.0386	0.2978
68	23.30	-0.02	-0.0431	0.0011	0.0006	-0.0267	-0.0195	1.0976	0.0395	0.3252	0.0360	0.2963
69	23.59	-0.02	-0.0623	-0.0013	0.0033	0.0217	-0.0536	1.1110	0.0412	0.3340	0.0371	0.3006
70	23.91	-0.03	-0.0582	0.0067	-0.0065	-0.1160	0.1184	1.0537	0.0367	0.3121	0.0348	0.2962
71	24.22	-0.03	-0.0269	0.0109	-0.0053	-0.4051	0.1957	1.0447	0.0336	0.3078	0.0322	0.2946
72	24.53	-0.04	-0.0499	0.0016	0.0078	-0.0321	-0.1558	1.1429	0.0397	0.3353	0.0348	0.2934
73	24.85	-0.03	-0.0228	0.0124	-0.0060	-0.5438	0.2630	1.0265	0.0209	0.2923	0.0262	0.2867
74	25.12	-0.04	-0.0207	0.0104	0.0052	-0.5047	-0.2513	1.0971	0.0310	0.3149	0.0282	0.2870
75	25.42	-0.04	-0.0429	-0.0099	0.0054	0.1071	-0.0586	1.1592	0.0390	0.3513	0.0336	0.3030
76	25.71	-0.03	0.0163	0.0085	0.0138	0.5214	0.8486	1.1061	0.0317	0.3209	0.0286	0.2901
77	26.00	-0.03	0.0460	0.0113	0.0214	0.2456	0.4656	1.0524	0.0242	0.3064	0.0230	0.2911
78	26.28	-0.04	0.0007	0.0055	0.0205	0.8557	29.3332	1.1366	0.0322	0.3349	0.0284	0.2947
79	26.58	-0.03	0.0273	0.0056	0.0318	0.2051	1.1647	1.1039	0.0295	0.3200	0.0268	0.2895
80	26.91	-0.03	0.1369	0.0123	0.0659	0.0898	0.4815	1.0671	0.0229	0.3144	0.0215	0.2946
81	27.19	-0.04	0.0059	0.0019	0.0366	0.3220	6.1976	1.1241	0.0296	0.3253	0.0263	0.2894
82	27.51	-0.04	0.0753	0.0058	0.0567	0.0770	0.7529	1.1029	0.0269	0.3199	0.0244	0.2901
83	27.80	-0.03	0.0005	0.0005	0.0465	0.9998	93.7333	1.1513	0.0296	0.3345	0.0257	0.2906
84	28.09	-0.05	-0.0198	-0.0026	0.0271	0.1338	-1.3088	1.1862	0.0316	0.3481	0.0266	0.2934
85	28.40	-0.04	-0.0624	-0.0012	0.0033	0.0200	-0.0530	1.1530	0.0297	0.3373	0.0258	0.2925
86	28.72	-0.04	-0.0204	-0.0017	0.0296	0.0858	-1.4511	1.1556	0.0289	0.3371	0.0250	0.2917
87	29.03	-0.05	-0.0328	-0.0043	0.0306	0.1311	-0.9320	1.1603	0.0279	0.3403	0.0241	0.2933
88	29.34	-0.04	0.0014	-0.0027	0.0409	-1.9282	29.1904	1.1687	0.0277	0.3402	0.0237	0.2911

08

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH HA10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 13 0.85 1.7			0.0	B2W0F12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	C83	ACPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	-2.75	0.03	-0.0039	0.0009	-0.0028	-0.2435	0.7178	-0.1377	-0.0043	-0.0695	0.0316	0.5046
2	-2.48	0.05	-0.0091	0.0009	-0.0025	-0.1044	0.2783	-0.1220	-0.0043	-0.0668	0.0356	0.5480
3	-1.91	0.05	-0.0124	0.0007	-0.0033	-0.0564	0.2687	-0.0826	-0.0030	-0.0465	0.0363	0.5632
4	-1.32	0.04	-0.0022	0.0009	-0.0015	-0.4317	0.6969	-0.0471	-0.0022	-0.0330	0.0478	0.7005
5	-0.78	0.05	-0.0020	0.0008	-0.0034	-0.3599	1.6832	-0.0208	-0.0019	-0.0198	0.0913	0.9534
6	-0.22	0.04	0.0014	0.0009	-0.0028	0.6785	-2.0239	0.0097	-0.0039	-0.0065	-0.0928	-0.6668
7	0.29	0.03	0.0029	0.0012	-0.0018	0.4137	-0.6323	0.0468	-0.0002	0.0076	-0.0041	0.1549
8	0.83	0.05	-0.0024	0.0013	-0.0015	-0.5416	0.6249	0.0757	0.0005	0.0189	0.0073	0.2500
9	1.31	0.03	-0.0022	0.0009	-0.0015	-0.4317	0.6969	0.1046	0.0015	0.0324	0.0148	0.3103
10	1.81	0.04	0.0031	0.0009	-0.0015	0.2903	-0.6023	0.1381	0.0018	0.0433	0.0134	0.3137
11	2.28	0.02	0.0030	0.0009	-0.0010	0.3166	-0.3335	0.1703	0.0026	0.0555	0.0153	0.3262
12	2.75	0.02	0.0030	0.0008	-0.0006	0.2833	-0.2001	0.1920	0.0033	0.0678	0.0174	0.3530
13	3.22	0.03	0.0045	0.0013	-0.0009	0.2999	-0.2001	0.2243	0.0043	0.0797	0.0192	0.3555
14	3.69	0.03	0.0047	0.0008	-0.0004	0.1702	0.0779	0.2549	0.0051	0.0916	0.0202	0.3595
15	4.16	0.02	0.0028	0.0011	-0.0007	0.4106	-0.2382	0.3001	0.0069	0.1055	0.0231	0.3515
16	4.61	0.02	0.0114	0.0009	0.0011	0.0833	0.0964	0.3209	0.0084	0.1149	0.0263	0.3581
17	5.05	0.03	0.0077	0.0013	0.0012	0.1753	0.1514	0.3621	0.0091	0.1282	0.0251	0.3539
18	5.51	0.02	0.0059	0.0012	0.0018	0.2118	0.2993	0.3908	0.0099	0.1407	0.0254	0.3601
19	5.95	0.02	0.0094	0.0010	0.0028	0.1117	0.3013	0.4226	0.0106	0.1516	0.0251	0.3585
20	6.38	0.03	0.0092	0.0012	0.0032	0.1358	0.3441	0.4528	0.0109	0.1608	0.0242	0.3551
21	6.84	0.02	0.0092	0.0013	0.0032	0.1467	0.3441	0.4758	0.0113	0.1699	0.0238	0.3572
22	7.29	0.01	0.0194	0.0012	0.0059	0.0618	0.3023	0.5044	0.0121	0.1826	0.0241	0.3620
23	7.70	0.02	0.0108	0.0012	0.0045	0.1157	0.4165	0.5358	0.0122	0.1934	0.0229	0.3610
24	8.16	0.02	0.0141	0.0011	0.0065	0.0815	0.4609	0.5686	0.0136	0.2036	0.0239	0.3580
25	8.56	0.02	0.0141	0.0016	0.0044	0.1135	0.3119	0.5938	0.0143	0.2126	0.0242	0.3580
26	8.99	0.02	0.0140	0.0013	0.0065	0.0964	0.4618	0.6272	0.0162	0.2230	0.0258	0.3555
27	9.38	0.03	0.0141	0.0014	0.0053	0.0943	0.3758	0.6436	0.0168	0.2285	0.0262	0.3551
28	9.79	0.01	0.0175	0.0013	0.0063	0.0771	0.3618	0.6780	0.0180	0.2367	0.0265	0.3491
29	10.19	0.01	0.0139	0.0015	0.0064	0.1079	0.4627	0.6924	0.0185	0.2437	0.0267	0.3520
30	10.59	0.01	0.0111	0.0009	0.0041	0.0856	0.3693	0.7229	0.0193	0.2512	0.0268	0.3475
31	10.96	0.0	0.0141	0.0012	0.0065	0.0851	0.4609	0.7429	0.0201	0.2571	0.0271	0.3461
32	11.35	-0.01	0.0171	0.0014	0.0097	0.0819	0.5671	0.7756	0.0210	0.2701	0.0271	0.3483
33	11.70	0.0	0.0090	0.0013	0.0047	0.1500	0.5221	0.7683	0.0215	0.2726	0.0273	0.3458
34	12.06	-0.01	0.0171	0.0012	0.0098	0.0731	0.5730	0.8141	0.0223	0.2805	0.0274	0.3445
35	12.43	-0.01	0.0137	0.0013	0.0096	0.0949	0.6982	0.8382	0.0229	0.2862	0.0273	0.3414
36	12.78	0.01	0.0123	0.0012	0.0070	0.0575	0.5690	0.8644	0.0245	0.2948	0.0283	0.3411
37	13.13	0.0	0.0204	0.0018	0.0093	0.0907	0.4558	0.8938	0.0253	0.3009	0.0284	0.3367
38	13.49	0.01	0.0171	0.0011	0.0110	0.0672	0.6432	0.9003	0.0264	0.3024	0.0294	0.3359
39	13.84	0.0	0.0225	0.0010	0.0106	0.0467	0.4710	0.9281	0.0284	0.3105	0.0306	0.3345
40	14.20	0.01	0.0174	0.0012	0.0082	0.0690	0.4711	0.9359	0.0306	0.3111	0.0327	0.3324
41	14.57	0.01	0.0102	0.0011	0.0106	0.1127	1.0391	0.9547	0.0317	0.3129	0.0332	0.3278
42	14.89	0.0	0.0221	0.0015	0.0115	0.0679	0.5368	0.9675	0.0323	0.3163	0.0334	0.3269
43	15.26	0.0	0.0136	0.0012	0.0114	0.0882	0.8406	0.9859	0.0348	0.3215	0.0353	0.3261
44	15.58	0.0	0.0141	0.0009	0.0090	0.0674	0.6382	0.9969	0.0391	0.3201	0.0393	0.3211
45	15.89	-0.01	0.0208	0.0010	0.0106	0.0505	0.5111	1.0022	0.0421	0.3169	0.0420	0.3162
46	16.24	0.0	0.0240	0.0013	0.0120	0.0562	0.4999	0.9784	0.0490	0.3061	0.0501	0.3129

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 13 0.85 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCFF3	YCFF3	CNF4	CM4	CB4	XCFF4	YCFF4
47	16.55	0.01	0.0205	0.0013	0.0118	0.0658	0.5771	0.9959	0.0499	0.3078	0.0501	0.3090
48	16.89	0.0	0.0308	0.0013	0.0138	0.0422	0.4469	0.9980	0.0503	0.3105	0.0504	0.3111
49	17.19	-0.01	0.0276	0.0010	0.0129	0.0380	0.4673	1.0310	0.0505	0.3171	0.0490	0.3075
50	17.54	-0.01	0.0303	0.0017	0.0156	0.0577	0.5147	1.0331	0.0503	0.3196	0.0487	0.3093
51	17.87	0.0	0.0234	0.0014	0.0118	0.0686	0.5763	1.0573	0.0489	0.3226	0.0462	0.3051
52	18.19	0.0	0.0235	0.0014	0.0144	0.0596	0.6141	1.0686	0.0463	0.3286	0.0433	0.3075
53	18.54	-0.01	0.0234	0.0013	0.0144	0.0577	0.6153	1.0828	0.0450	0.3330	0.0415	0.3075
54	18.85	-0.01	0.0287	0.0015	0.0129	0.0523	0.4482	1.0866	0.0443	0.3351	0.0408	0.3084
55	19.16	-0.01	0.0299	0.0016	0.0166	0.0552	0.5540	1.1133	0.0445	0.3404	0.0400	0.3057
56	19.49	-0.01	0.0239	0.0011	0.0113	0.0481	0.4713	1.1205	0.0460	0.3411	0.0411	0.3044
57	19.82	-0.02	0.0352	0.0017	0.0147	0.0483	0.4184	1.1313	0.0456	0.3440	0.0403	0.3041
58	20.15	-0.02	0.0252	0.0014	0.0129	0.0555	0.5118	1.1298	0.0494	0.3383	0.0438	0.2994
59	20.50	-0.01	0.0420	0.0016	0.0170	0.0381	0.4046	1.1420	0.0479	0.3434	0.0420	0.3007
60	20.80	-0.03	0.0271	0.0014	0.0127	0.0517	0.4697	1.1494	0.0485	0.3463	0.0422	0.3013
61	21.14	-0.02	0.0354	0.0016	0.0151	0.0452	0.4264	1.1353	0.0478	0.3334	0.0421	0.2937
62	21.45	-0.03	0.0352	0.0016	0.0166	0.0469	0.4724	1.1671	0.0480	0.3494	0.0411	0.2994
63	21.73	-0.03	0.0373	0.0011	0.0164	0.0308	0.4405	1.1522	0.0479	0.3462	0.0416	0.3005
64	22.06	-0.02	0.0365	0.0016	0.0177	0.0434	0.4796	1.1751	0.0477	0.3520	0.0406	0.2995
65	22.36	-0.02	0.0301	0.0015	0.0166	0.0515	0.5525	1.1902	0.0467	0.3586	0.0392	0.3013
66	22.68	-0.03	0.0419	0.0021	0.0174	0.0501	0.4144	1.1894	0.0448	0.3488	0.0377	0.2933
67	22.97	-0.04	0.0451	0.0020	0.0200	0.0443	0.4441	1.1304	0.0405	0.3340	0.0358	0.2954
68	23.30	-0.02	0.0400	0.0020	0.0185	0.0512	0.4532	1.1202	0.0369	0.3273	0.0330	0.2922
69	23.59	-0.02	0.0400	0.0019	0.0185	0.0487	0.4632	1.0973	0.0355	0.3297	0.0324	0.3005
70	23.91	-0.03	0.0438	0.0017	0.0172	0.0395	0.3926	1.1310	0.0331	0.3354	0.0337	0.2965
71	24.22	-0.03	0.0368	0.0017	0.0178	0.0475	0.4827	1.1416	0.0384	0.3443	0.0337	0.3016
72	24.53	-0.04	0.0419	0.0015	0.0202	0.0358	0.4812	1.0336	0.0275	0.2997	0.0266	0.2900
73	24.85	-0.03	0.0417	0.0020	0.0142	0.0430	0.4603	1.1764	0.0365	0.3398	0.0311	0.2888
74	25.12	-0.04	0.0418	0.0017	0.0202	0.0414	0.4839	1.1119	0.0301	0.3157	0.0271	0.2839
75	25.42	-0.04	0.0420	0.0019	0.0175	0.0464	0.4165	0.9791	0.0214	0.2937	0.0218	0.2999
76	25.71	-0.03	0.0466	0.0025	0.0196	0.0547	0.4212	1.0865	0.0265	0.3135	0.0244	0.2886
77	26.00	-0.03	0.0420	0.0016	0.0193	0.0381	0.4594	1.1340	0.0311	0.3372	0.0274	0.2973
78	26.28	-0.04	0.0516	0.0024	0.0221	0.0475	0.4282	1.0439	0.0209	0.3051	0.0201	0.2922
79	26.58	-0.03	0.0453	0.0017	0.0201	0.0386	0.4436	1.0719	0.0197	0.3160	0.0184	0.2948
80	26.91	-0.03	0.0520	0.0019	0.0220	0.0365	0.4236	1.0953	0.0242	0.3243	0.0221	0.2961
81	27.19	-0.04	0.0405	0.0020	0.0216	0.0412	0.4446	1.0783	0.0156	0.3156	0.0145	0.2927
82	27.51	-0.04	0.0400	0.0021	0.0198	0.0525	0.4957	1.1015	0.0164	0.3206	0.0149	0.2911
83	27.80	-0.03	0.0517	0.0021	0.0239	0.0406	0.4628	1.0629	0.0133	0.3100	0.0125	0.2916
84	28.09	-0.05	0.0504	0.0017	0.0226	0.0347	0.4483	1.0233	0.0124	0.3014	0.0121	0.2945
85	28.40	-0.04	0.0467	0.0017	0.0235	0.0364	0.5109	1.0463	0.0120	0.3081	0.0115	0.2944
86	28.72	-0.04	0.0517	0.0021	0.0235	0.0416	0.4628	1.0447	0.0115	0.3067	0.0111	0.2936
87	29.03	-0.05	0.0516	0.0020	0.0254	0.0397	0.4921	1.0459	0.0110	0.3050	0.0105	0.2916
88	29.34	-0.04	0.0460	0.0029	0.0258	0.0630	0.5615	1.0289	0.0110	0.2992	0.0107	0.2908

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RATIO	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	14.0	0.92	1.7	0.0	B2HOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.75	0.01	-0.4070	0.9738	-0.0426	-0.0734	0.0090	0.1803	-2.3924	
2	-2.45	0.02	-0.3674	0.9012	0.0259	-0.0772	0.0100	0.1745	-2.4533	
3	-1.88	0.04	-0.2840	0.6735	0.0298	-0.0667	0.0100	0.1816	-2.3718	
4	-1.28	-0.01	-0.1969	0.4486	-0.0105	-0.0827	0.0130	0.1853	-2.2786	
5	-0.74	0.02	-0.0963	0.2338	0.0078	-0.0189	0.0090	0.1873	-2.4280	
6	-0.19	0.03	-0.0402	0.0763	0.0451	-0.0091	0.0110	0.1887	-1.8975	
7	0.32	0.02	0.0414	-0.0879	0.0320	-0.0068	0.0100	0.1899	-2.1246	
8	0.86	0.02	0.1184	-0.2437	0.0336	-0.0680	0.0130	0.1892	-2.0588	
9	1.33	0.03	0.1806	-0.4338	0.0905	-0.0583	0.0110	0.1877	-2.4022	
10	1.82	0.03	0.2588	-0.6312	0.0664	-0.0010	0.0130	0.1885	-2.4394	
11	2.31	0.03	0.3379	-0.8270	0.0716	-0.1042	0.0140	0.1945	-2.4476	
12	2.78	0.0	0.4164	-1.0220	0.0245	-0.0449	0.0120	0.1896	-2.4540	
13	3.27	0.0	0.5126	-1.2556	0.0431	-0.0913	0.0170	0.1882	-2.4493	
14	3.71	0.0	0.5909	-1.4532	0.0075	-0.0465	0.0210	0.1866	-2.4592	
15	4.17	0.0	0.6565	-1.6720	0.0215	-0.0127	0.0200	0.1921	-2.5468	
16	4.62	-0.01	0.7446	-1.9093	-0.0637	-0.0158	0.0200	0.1896	-2.5642	
17	5.09	0.01	0.8526	-2.2035	0.0713	0.0052	0.0190	0.1914	-2.5845	
18	5.52	0.0	0.9345	-2.4201	0.0450	-0.0450	0.0220	0.1906	-2.5898	
19	5.98	-0.02	1.0201	-2.6869	0.0223	-0.1082	0.0210	0.1921	-2.6341	
20	6.41	0.0	1.1005	-2.8755	0.0352	-0.0563	0.0230	0.1898	-2.6130	
21	6.88	0.01	1.2011	-3.2034	0.0496	0.0116	0.0220	0.1943	-2.6670	
22	7.30	-0.01	1.2918	-3.4283	0.0085	-0.0689	0.0230	0.1909	-2.6539	
23	7.73	-0.01	1.3902	-3.6721	-0.0398	-0.0043	0.0160	0.1881	-2.6414	
24	8.18	-0.03	1.4828	-3.9217	-0.0475	-0.0085	0.0220	0.1880	-2.6448	
25	8.58	0.0	1.5587	-4.1119	0.0229	0.0039	0.0190	0.1857	-2.6381	
26	8.99	-0.03	1.6421	-4.2947	-0.0626	-0.0534	0.0230	0.1883	-2.6154	
27	9.38	-0.02	1.7352	-4.5050	-0.0218	-0.0075	0.0170	0.1822	-2.5963	
28	9.81	-0.05	1.7938	-4.6920	0.0170	0.1102	0.0180	0.1779	-2.6157	
29	10.19	-0.05	1.8776	-4.9413	-0.0889	0.0884	0.0230	0.1807	-2.6318	
30	10.61	0.0	1.9767	-5.0981	0.0337	0.0798	0.0130	0.1781	-2.5791	
31	10.98	-0.03	2.0577	-5.3025	0.0021	-0.0749	0.0100	0.1774	-2.5769	
32	11.35	-0.04	2.1542	-5.5160	0.0484	0.0492	0.0180	0.1706	-2.5608	
33	11.71	-0.02	2.2119	-5.6643	0.0187	0.1008	0.0130	0.1700	-2.5608	
34	12.08	-0.03	2.2837	-5.8168	0.0094	0.0978	0.0130	0.1698	-2.5471	
35	12.46	-0.04	2.3956	-6.0505	-0.0184	0.0698	0.0110	0.1665	-2.5257	
36	12.79	-0.04	2.4852	-6.2379	0.0021	0.0491	0.0060	0.1658	-2.5100	
37	13.13	-0.03	2.5437	-6.3848	0.0131	0.1406	0.0120	0.1623	-2.5101	
38	13.50	-0.04	2.6212	-6.5352	-0.0795	0.1313	0.0100	0.1608	-2.4933	
39	13.83	-0.03	2.6994	-6.6598	0.0281	0.1886	0.0090	0.1566	-2.4671	
40	14.19	-0.04	2.7630	-6.8099	-0.0292	0.1119	0.0330	0.1547	-2.4646	
41	14.56	-0.03	2.8674	-6.9660	-0.0052	0.1743	0.0160	0.1500	-2.4294	
42	14.89	-0.04	2.9289	-7.1351	-0.0143	0.1230	0.0040	0.1491	-2.4361	
43	15.24	-0.03	2.9945	-7.2299	0.0303	0.1396	0.0070	0.1458	-2.4144	
44	15.56	-0.04	3.0805	-7.3523	0.0081	0.2236	0.0070	0.1448	-2.3867	
45	15.91	-0.04	3.1527	-7.4444	0.0437	0.1478	0.0040	0.1418	-2.3613	
46	16.23	-0.05	3.2186	-7.6166	-0.0790	0.2266	0.0040	0.1418	-2.3664	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

	TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
	6	14	0.92	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	16.58	-0.05	3.3044	-7.6907	-0.0527	0.0548	-0.0030	0.1415	-2.3274			
48	16.88	-0.05	3.3515	-7.7986	-0.0768	0.2195	-0.0070	0.1404	-2.3269			
49	17.19	-0.04	3.4382	-7.9630	0.0014	0.1400	-0.0120	0.1394	-2.3161			
50	17.53	-0.05	3.4959	-8.0329	-0.0151	0.0731	-0.0170	0.1368	-2.2978			
51	17.86	-0.05	3.5653	-8.0611	0.0225	-0.0025	-0.0270	0.1372	-2.2610			
52	18.20	-0.05	3.6236	-8.1047	0.0338	-0.0033	-0.0290	0.1436	-2.2366			
53	18.54	-0.05	3.6460	-8.0100	-0.0090	0.0496	-0.0200	0.1464	-2.1969			
54	18.87	-0.06	3.7528	-8.1086	-0.0386	0.1050	-0.0240	0.1385	-2.1607			
55	19.18	-0.06	3.7831	-8.1310	0.0062	-0.0377	-0.0210	0.1379	-2.1493			
56	19.51	-0.05	3.8405	-8.2473	-0.0049	0.0419	-0.0190	0.1349	-2.1475			
57	19.84	-0.06	3.9415	-8.3617	-0.1016	0.2572	-0.0230	0.1281	-2.1215			
58	20.16	-0.04	4.0022	-8.4297	0.1190	0.0324	-0.0270	0.1179	-2.1063			
59	20.50	-0.05	4.0719	-8.5832	-0.0793	0.2370	-0.0280	0.1158	-2.1079			
60	20.84	-0.04	4.1592	-8.6284	-0.0023	0.2952	-0.0360	0.1101	-2.0746			
61	21.16	-0.05	4.2087	-8.7509	0.0764	-0.1009	-0.0250	0.1040	-2.0792			
62	21.47	-0.05	4.3043	-8.8227	0.0315	0.0025	-0.0200	0.0954	-2.0497			
63	21.78	-0.05	4.3395	-8.8630	0.0055	0.0883	-0.0340	0.0899	-2.0424			
64	22.08	-0.05	4.4149	-8.9875	0.1143	-0.1370	-0.0140	0.0869	-2.0357			
65	22.40	-0.05	4.4760	-9.0661	0.0848	-0.0607	-0.0330	0.0828	-2.0255			
66	22.71	-0.05	4.5351	-9.0438	-0.0409	0.2032	-0.0530	0.0827	-1.9942			
67	23.03	-0.05	4.6093	-9.1427	0.0581	-0.1083	-0.0140	0.0731	-1.9835			
68	23.34	-0.05	4.6222	-9.1197	0.1256	-0.2808	0.0290	0.0724	-1.9730			
69	23.64	-0.06	4.6751	-9.1468	0.1454	-0.1275	-0.0090	0.0700	-1.9565			
70	23.98	-0.08	4.7256	-9.1645	0.1051	-0.4291	0.0410	0.0640	-1.9393			
71	24.29	-0.06	4.7521	-9.1166	0.1098	-0.1617	-0.0060	0.0562	-1.9184			
72	24.61	-0.07	4.7879	-9.0077	0.0187	-0.0452	-0.0810	0.0579	-1.8814			
73	24.88	-0.06	4.8505	-9.2353	0.1406	-0.1278	-0.0230	0.0446	-1.9040			
74	25.17	-0.07	4.9015	-9.1397	0.0413	0.0142	-0.0540	0.0424	-1.8647			
75	25.45	-0.07	4.9596	-9.1231	0.1300	-0.2760	-0.0200	0.0322	-1.8395			
76	25.76	-0.07	5.0320	-9.0506	0.0858	-0.1591	-0.0875	0.0302	-1.7986			
77	26.05	-0.08	5.1321	-9.1287	0.1023	-0.3342	-0.0230	0.0145	-1.7787			
78	26.35	-0.07	5.2181	-9.1341	0.1216	-0.2572	-0.0290	0.0108	-1.7505			
79	26.66	-0.08	5.2938	-9.1351	0.0562	-0.2516	-0.0930	0.0101	-1.7256			
80	26.98	-0.08	5.4023	-9.1640	0.0486	-0.1740	-0.0690	0.0019	-1.6963			
81	27.28	-0.07	5.5171	-9.2467	0.0582	-0.2235	-0.1020	-0.0034	-1.6760			
82	27.60	-0.08	5.5775	-9.1773	0.2630	-0.7781	-0.0120	-0.0147	-1.6454			
83	27.89	-0.07	5.5735	-9.0697	0.0293	-0.0420	-0.1350	-0.0112	-1.6273			
84	28.19	-0.07	5.7463	-9.0648	0.1760	-0.3334	-0.0870	-0.0361	-1.5775			
85	28.49	-0.10	5.7565	-9.0430	0.1660	-0.8363	-0.0460	-0.0373	-1.5709			
86	28.80	-0.09	5.7854	-8.9315	0.0647	-0.5285	-0.0490	-0.0516	-1.5438			
87	29.12	-0.03	5.7217	-8.6872	0.4302	-0.3394	-0.0290	-0.0631	-1.5183			
88	29.43	-0.03	5.8672	-8.8340	0.6349	-0.5769	-0.0400	-0.0704	-1.5057			

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	14.092	1.7	0.0	82WUF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.75	0.01	-0.0569	0.0004	0.0077	-0.0070	-0.1360	-0.1560	-0.0022	-0.0655	0.0141	0.4198
2	-2.45	0.02	-0.0585	0.0003	0.0079	-0.0060	-0.1352	-0.1448	-0.0019	-0.0615	0.0135	0.4251
3	-1.08	0.04	-0.0629	0.0002	0.0051	-0.0032	-0.0817	-0.1068	-0.0016	-0.0488	0.0154	0.4568
4	-1.28	-0.01	-0.0557	0.0002	0.0063	-0.0036	-0.1138	-0.0775	-0.0037	-0.0319	0.0097	0.4119
5	-0.74	0.02	-0.0556	0.0005	0.0092	-0.0090	-0.1650	-0.0403	-0.0032	-0.0158	0.0050	0.3928
6	-0.19	0.03	-0.0598	0.0004	0.0058	-0.0067	-0.0966	-0.0169	0.0004	-0.0059	-0.0266	0.3510
7	0.32	0.02	-0.0542	0.0003	0.0074	-0.0055	-0.1373	-0.0108	0.0013	0.0053	0.1203	0.4906
8	0.86	0.02	-0.0532	0.0001	0.0089	-0.0019	-0.1668	0.0386	0.0023	0.0168	0.0609	0.4343
9	1.33	0.03	-0.0542	0.0003	0.0074	-0.0055	-0.1373	0.0696	0.0027	0.0280	0.0395	0.4022
10	1.82	0.03	-0.0475	0.0001	0.0116	-0.0021	-0.2436	0.0971	0.0037	0.0413	0.0381	0.4259
11	2.31	0.03	-0.0456	0.0002	0.0091	-0.0044	-0.1997	0.1245	0.0045	0.0547	0.0361	0.4392
12	2.78	0.0	-0.0519	0.0	0.0693	0.0	-0.1793	0.1585	0.0045	0.0671	0.0284	0.4234
13	3.27	0.0	-0.0539	-0.0004	0.0075	0.0083	-0.1399	0.1831	0.0045	0.0804	0.0246	0.4392
14	3.71	0.0	-0.0470	-0.0006	0.0093	0.0138	-0.1987	0.2130	0.0052	0.0899	0.0244	0.4219
15	4.17	0.0	-0.0507	-0.0010	0.0104	0.0207	-0.2052	0.2441	0.0046	0.1020	0.0188	0.4180
16	4.62	-0.01	-0.0455	-0.0014	0.0118	0.0319	-0.2602	0.2774	0.0060	0.1161	0.0218	0.4186
17	5.09	0.01	-0.0547	-0.0016	0.0114	0.0292	-0.2079	0.3102	0.0045	0.1272	0.0209	0.4095
18	5.52	0.0	-0.0462	-0.0026	0.0137	0.0573	-0.2767	0.3467	0.0039	0.1411	0.0170	0.4064
19	5.98	-0.02	-0.0532	-0.0032	0.0156	0.0601	-0.2927	0.3856	0.0051	0.1552	0.0133	0.4024
20	6.41	0.0	-0.0507	-0.0034	0.0161	0.0670	-0.3177	0.4068	0.0045	0.1639	0.0112	0.4028
21	6.88	0.01	-0.0555	-0.0030	0.0117	0.0549	-0.2109	0.4469	0.0034	0.1781	0.0076	0.3985
22	7.30	-0.01	-0.0540	-0.0036	0.0158	0.0676	-0.2927	0.4768	0.0025	0.1897	0.0053	0.3978
23	7.73	-0.01	-0.0574	-0.0024	0.0106	0.0427	-0.1842	0.5036	0.0020	0.2012	0.0041	0.3995
24	8.18	-0.03	-0.0605	-0.0041	0.0146	0.0686	-0.2321	0.5337	0.0025	0.2111	0.0048	0.3956
25	8.58	0.0	-0.0566	-0.0046	0.0126	0.0821	-0.2233	0.5615	0.0023	0.2180	0.0042	0.3882
26	8.99	-0.03	-0.0634	-0.0057	0.0170	0.0907	-0.2677	0.5796	0.0031	0.2263	0.0054	0.3905
27	9.38	-0.02	-0.0645	-0.0041	0.0109	0.0636	-0.1691	0.6042	0.0035	0.2333	0.0059	0.3862
28	9.81	-0.05	-0.0663	-0.0051	0.0113	0.0777	-0.1706	0.6334	0.0043	0.2399	0.0069	0.3768
29	10.19	-0.05	-0.0710	-0.0053	0.0118	0.0746	-0.1668	0.6562	0.0050	0.2482	0.0077	0.3783
30	10.61	0.0	-0.0749	-0.0058	0.0118	0.0781	-0.1581	0.6777	0.0052	0.2556	0.0077	0.3772
31	10.98	-0.03	-0.0794	-0.0051	0.0095	0.0642	-0.1252	0.7053	0.0060	0.2629	0.0086	0.3728
32	11.35	-0.04	-0.0733	-0.0065	0.0141	0.0893	-0.1920	0.7287	0.0065	0.2684	0.0090	0.3683
33	11.71	-0.02	-0.0818	-0.0066	0.0094	0.0813	-0.1154	0.7429	0.0070	0.2739	0.0094	0.3687
34	12.08	-0.03	-0.0933	-0.0063	0.0094	0.0680	-0.1009	0.7632	0.0073	0.2798	0.0096	0.3666
35	12.46	-0.04	-0.0901	-0.0079	0.0117	0.0882	-0.1296	0.7881	0.0078	0.2873	0.0100	0.3646
36	12.79	-0.04	-0.0993	-0.0065	0.0071	0.0659	-0.0716	0.8115	0.0088	0.2929	0.0109	0.3605
37	13.13	-0.03	-0.0962	-0.0072	0.0101	0.0748	-0.1055	0.8304	0.0088	0.2980	0.0106	0.3589
38	13.50	-0.04	-0.0963	-0.0066	0.0060	0.0690	-0.0624	0.8441	0.0092	0.3027	0.0110	0.3586
39	13.83	-0.03	-0.1021	-0.0082	0.0103	0.0868	-0.1007	0.8567	0.0104	0.3049	0.0121	0.3559
40	14.19	-0.04	-0.1019	-0.0067	0.0025	0.0662	-0.0250	0.8812	0.0119	0.3110	0.0135	0.3530
41	14.56	-0.03	-0.1059	-0.0088	0.0059	0.0836	-0.0558	0.8951	0.0129	0.3133	0.0145	0.3500
42	14.89	-0.04	-0.1060	-0.0049	-0.0011	0.0462	0.0106	0.9133	0.0149	0.3175	0.0163	0.3477
43	15.24	-0.03	-0.1064	-0.0076	0.0021	0.0719	-0.0202	0.9190	0.0173	0.3180	0.0188	0.3461
44	15.56	-0.04	-0.1109	-0.0075	0.0034	0.0676	-0.0311	0.9339	0.0181	0.3221	0.0194	0.3449
45	15.91	-0.04	-0.1175	-0.0071	0.0005	0.0604	-0.0347	0.9495	0.0198	0.3248	0.0209	0.3421
46	16.23	-0.05	-0.1113	-0.0068	0.0016	0.0615	-0.0145	0.9691	0.0204	0.3269	0.0210	0.3373

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PH1 CNF1 L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 14 0.92 1.7 0.0 82WOF12 0.0 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.58	-0.05	-0.1106	-0.0050	-0.0040	0.0452	0.0357	0.9834	0.0207	0.3325	0.0211	0.3381
48	16.88	-0.05	-0.1182	-0.0049	-0.0039	0.0419	0.0329	0.9996	0.0209	0.3362	0.0210	0.3363
49	17.19	-0.04	-0.1167	-0.0110	0.0025	0.0942	-0.0250	1.0155	0.0205	0.3389	0.0202	0.3337
50	17.53	-0.05	-0.1209	-0.0126	0.0046	0.1046	-0.0382	1.0188	0.0202	0.3417	0.0199	0.3354
51	17.86	-0.05	-0.1097	-0.0045	-0.0068	0.0415	0.0616	1.0470	0.0229	0.3457	0.0219	0.3302
52	18.20	-0.05	-0.1169	-0.0093	0.0023	0.0795	-0.0201	1.0473	0.0248	0.3449	0.0237	0.3293
53	18.54	-0.05	-0.1123	-0.0025	-0.0083	0.0223	0.0741	1.0303	0.0346	0.3298	0.0336	0.3201
54	18.87	-0.06	-0.1242	-0.0110	0.0006	0.0890	-0.0049	1.0620	0.0267	0.3466	0.0251	0.3263
55	19.18	-0.06	-0.1140	-0.0041	-0.0056	0.0364	0.0490	1.0590	0.0323	0.3419	0.0305	0.3228
56	19.51	-0.05	-0.1142	-0.0009	-0.0110	0.0083	0.0959	1.0609	0.0345	0.3404	0.0325	0.3209
57	19.84	-0.06	-0.1321	-0.0106	-0.0021	0.0806	0.0160	1.0757	0.0311	0.3463	0.0289	0.3220
58	20.16	-0.04	-0.1236	-0.0045	-0.0079	0.0368	0.0638	1.0836	0.0339	0.3455	0.0313	0.3188
59	20.50	-0.05	-0.1357	-0.0073	-0.0076	0.0542	0.0561	1.0951	0.0332	0.3491	0.0303	0.3188
60	20.84	-0.04	-0.1362	-0.0084	-0.0068	0.0620	0.0498	1.1063	0.0328	0.3536	0.0296	0.3197
61	21.16	-0.05	-0.0939	0.0035	-0.0125	-0.0373	0.1330	1.1126	0.0346	0.3521	0.0311	0.3165
62	21.47	-0.05	-0.1026	0.0029	-0.0115	-0.0283	0.1120	1.1123	0.0364	0.3472	0.0327	0.3122
63	21.78	-0.05	-0.1317	-0.0074	-0.0054	0.0562	0.0409	1.1255	0.0335	0.3578	0.0298	0.3179
64	22.08	-0.05	-0.0839	0.0055	-0.0084	-0.0655	0.1056	1.1284	0.0372	0.3526	0.0330	0.3127
65	22.40	-0.05	-0.1157	-0.0027	-0.0048	0.0238	0.0411	1.1484	0.0348	0.3574	0.0303	0.3112
66	22.71	-0.05	-0.1070	-0.0070	0.0035	0.0654	-0.0331	1.1600	0.0340	0.3646	0.0293	0.3143
67	23.03	-0.05	-0.0709	0.0031	0.0012	-0.0437	-0.0166	1.1336	0.0374	0.3495	0.0330	0.3083
68	23.34	-0.05	-0.0505	0.0075	0.0034	-0.1495	-0.0668	1.1196	0.0360	0.3433	0.0321	0.3066
69	23.64	-0.06	-0.0692	-0.0012	0.0052	0.0173	-0.0757	1.1500	0.0350	0.3579	0.0305	0.3112
70	23.98	-0.08	-0.0373	0.0075	0.0061	-0.2024	-0.1628	1.1113	0.0324	0.3364	0.0292	0.3027
71	24.29	-0.06	-0.0785	0.0015	0.0041	-0.0191	-0.0528	1.1282	0.0331	0.3455	0.0294	0.3063
72	24.61	-0.07	-0.0460	0.0055	0.0136	-0.1195	-0.2950	1.1370	0.0306	0.3389	0.0269	0.2980
73	24.88	-0.06	-0.0641	-0.0004	0.0100	0.0062	-0.1566	1.1520	0.0322	0.3523	0.0260	0.3058
74	25.17	-0.07	-0.0766	-0.0010	0.0043	0.0131	-0.0558	1.1499	0.0319	0.3558	0.0277	0.3094
75	25.45	-0.07	-0.0214	0.0098	0.0144	-0.4579	-0.6715	1.1027	0.0281	0.3261	0.0255	0.2958
76	25.76	-0.07	-0.0944	-0.0017	0.0022	0.0185	-0.0238	1.1697	0.0311	0.3543	0.0266	0.3029
77	26.05	-0.08	-0.0540	0.0004	0.0116	-0.0083	-0.2149	1.1568	0.0301	0.3500	0.0260	0.3025
78	26.35	-0.07	-0.0936	-0.0051	0.0011	0.0545	-0.0119	1.1922	0.0313	0.3697	0.0262	0.3101
79	26.66	-0.08	-0.0981	-0.0048	0.0058	0.0489	-0.0592	1.2189	0.0306	0.3710	0.0251	0.3043
80	26.98	-0.08	-0.0933	-0.0077	0.0031	0.0831	-0.0333	1.2416	0.0325	0.3824	0.0262	0.3080
81	27.28	-0.07	-0.0491	-0.0064	0.0296	0.1313	-0.6036	1.2493	0.0302	0.3790	0.0242	0.3034
82	27.60	-0.08	0.0377	-0.0058	0.0698	-0.1551	1.8531	1.2262	0.0276	0.3708	0.0225	0.3024
83	27.89	-0.07	-0.0860	-0.0095	0.0114	0.1104	-0.1331	1.2621	0.0292	0.3836	0.0231	0.3040
84	28.19	-0.07	-0.0592	-0.0101	0.0288	0.1706	-0.4860	1.2563	0.0294	0.3813	0.0234	0.3035
85	28.49	-0.10	0.0115	-0.0082	0.0690	-0.7129	6.0028	1.2405	0.0261	0.3749	0.0211	0.3022
86	28.80	-0.09	-0.0201	-0.0079	0.0518	0.3930	-2.5772	1.2254	0.0255	0.3677	0.0208	0.3001
87	29.12	-0.03	0.0144	-0.0071	0.0620	-0.4930	4.3054	1.2213	0.0254	0.3697	0.0208	0.3027
88	29.43	-0.03	0.0287	-0.0069	0.0710	-0.2404	2.4726	1.2139	0.0236	0.3635	0.0194	0.2994

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	14.092	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.75	0.01	-0.0102	0.0011	0.0009	-0.1127	-0.0884	-0.1549	-0.0034	-0.0630	0.0223	0.4068
2	-2.45	0.02	-0.0133	0.0011	-0.0001	-0.0865	0.0099	-0.1436	-0.0031	-0.0601	0.0216	0.4189
3	-1.88	0.04	-0.0102	0.0011	0.0009	-0.1078	-0.0884	-0.0976	-0.0023	-0.0429	0.0241	0.4398
4	-1.28	-0.01	-0.0041	0.0016	0.0001	-0.3902	-0.0326	-0.0656	-0.0015	-0.0273	0.0229	0.4155
5	-0.74	0.02	-0.0090	0.0017	0.0005	-0.1544	-0.0557	-0.0337	-0.0009	-0.0150	0.0267	0.4460
6	-0.19	0.03	-0.0057	0.0015	0.0004	-0.2631	-0.0703	-0.0067	-0.0004	-0.0014	0.0597	0.2138
7	0.32	0.02	-0.0103	0.0012	0.0007	-0.1213	-0.0648	0.0283	0.0	0.0086	0.0	0.3049
8	0.86	0.02	-0.0087	0.0012	0.0005	-0.1437	-0.0576	0.0576	0.0010	0.0229	0.0174	0.3975
9	1.33	0.03	-0.0039	0.0010	0.0012	-0.2564	-0.3078	0.0893	0.0012	0.0325	0.0134	0.3634
10	1.82	0.03	-0.0005	0.0008	0.0000	-1.5997	-0.0668	0.1181	0.0017	0.0461	0.0144	0.3908
11	2.31	0.03	0.0050	0.0013	0.0032	0.2700	0.6332	0.1502	0.0024	0.0608	0.0160	0.4051
12	2.78	0.0	0.0005	0.0012	0.0024	2.4596	4.7332	0.1800	0.0024	0.0725	0.0136	0.4027
13	3.27	0.0	-0.0038	0.0009	0.0012	-0.2500	-0.3247	0.2159	0.0023	0.0876	0.0109	0.4059
14	3.71	0.0	-0.0039	0.0008	0.0023	-0.2051	-0.5899	0.2505	0.0024	0.0988	0.0098	0.3943
15	4.17	0.0	-0.0009	0.0009	0.0025	-1.0554	-2.7779	0.2816	0.0023	0.1110	0.0083	0.3943
16	4.62	-0.01	-0.0019	0.0011	0.0046	0.6052	2.4385	0.3170	0.0031	0.1237	0.0099	0.3903
17	5.09	0.01	0.0018	0.0012	0.0052	0.6943	2.8888	0.3572	0.0040	0.1380	0.0113	0.3864
18	5.52	0.0	0.0002	0.0013	0.0046	6.7488	22.8332	0.3880	0.0037	0.1501	0.0095	0.3868
19	5.98	-0.02	-0.0015	0.0014	0.0053	-0.9665	-3.5334	0.4237	0.0034	0.1622	0.0081	0.3828
20	6.41	0.0	-0.0031	0.0013	0.0066	-0.4193	-2.1184	0.4469	0.0020	0.1736	0.0045	0.3885
21	6.88	0.01	0.0015	0.0013	0.0071	0.8998	4.7332	0.4973	0.0009	0.1892	0.0018	0.3805
22	7.30	-0.01	-0.0001	0.0013	0.0051	13.4976	51.3332	0.5181	0.0001	0.1997	0.0002	0.3855
23	7.73	-0.01	0.0049	0.0010	0.0067	0.2040	1.3740	0.5516	0.0006	0.2107	0.0011	0.3820
24	8.16	-0.03	0.0017	0.0012	0.0060	0.7352	3.5097	0.5845	0.0007	0.2216	0.0012	0.3791
25	8.58	0.0	0.0016	0.0013	0.0062	0.8436	3.8957	0.6040	0.0013	0.2287	0.0022	0.3786
26	8.99	-0.03	0.0075	0.0014	0.0086	0.1866	1.1465	0.6370	0.0014	0.2370	0.0022	0.3721
27	9.38	-0.02	0.0029	0.0014	0.0075	0.4999	2.5746	0.6563	0.0018	0.2439	0.0028	0.3716
28	9.81	-0.05	0.0062	0.0011	0.0074	0.1855	1.1881	0.6829	0.0032	0.2526	0.0048	0.3700
29	10.19	-0.05	0.0060	0.0012	0.0085	0.2083	1.4165	0.7166	0.0039	0.2619	0.0054	0.3654
30	10.61	0.0	0.0059	0.0013	0.0093	0.2203	1.5705	0.7343	0.0043	0.2660	0.0059	0.3622
31	10.98	-0.03	0.0027	0.0012	0.0102	0.4629	3.7117	0.7547	0.0047	0.2737	0.0062	0.3603
32	11.35	-0.04	0.0029	0.0012	0.0086	0.4310	2.9539	0.7787	0.0061	0.2804	0.0079	0.3601
33	11.71	-0.02	0.0074	0.0014	0.0097	0.1959	1.3062	0.7988	0.0060	0.2879	0.0076	0.3604
34	12.08	-0.03	0.0075	0.0014	0.0083	0.1933	1.1065	0.8238	0.0061	0.2940	0.0074	0.3569
35	12.46	-0.04	0.0055	0.0015	0.0120	0.2727	2.1878	0.8481	0.0065	0.3018	0.0077	0.3558
36	12.79	-0.04	0.0162	0.0015	0.0135	0.0526	0.8332	0.8721	0.0069	0.3062	0.0079	0.3511
37	13.13	-0.03	0.0026	0.0014	0.0102	0.5576	3.9101	0.8945	0.0074	0.3144	0.0083	0.3514
38	13.50	-0.04	0.0104	0.0013	0.0105	0.1298	1.0063	0.9126	0.0074	0.3194	0.0081	0.3500
39	13.83	-0.03	0.0165	0.0009	0.0135	0.0576	0.8161	0.9357	0.0089	0.3244	0.0095	0.3467
40	14.19	-0.04	0.0136	0.0010	0.0116	0.0735	0.8553	0.9442	0.0084	0.3277	0.0089	0.3471
41	14.56	-0.03	0.0224	0.0014	0.0145	0.0647	0.6457	0.9752	0.0103	0.3358	0.0106	0.3443
42	14.89	-0.04	0.0115	0.0014	0.0140	0.1261	1.2202	0.9818	0.0111	0.3367	0.0114	0.3429
43	15.24	-0.03	0.0163	0.0011	0.0151	0.0705	0.9283	1.0062	0.0119	0.3412	0.0118	0.3391
44	15.56	-0.04	0.0136	0.0010	0.0117	0.0735	0.8626	1.0189	0.0142	0.3439	0.0140	0.3375
45	15.91	-0.04	0.0163	0.0011	0.0151	0.0705	0.9283	1.0318	0.0163	0.3453	0.0158	0.3347
46	16.23	-0.05	0.0117	0.0013	0.0130	0.1154	1.1110	1.0433	0.0181	0.3468	0.0173	0.3324

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 14 0.92 1.7			0.0	82WOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCFF3	CNF4	CH4	CB4	XCFF4	YCFF4
47	16.58	-0.05	0.0242	0.0011	0.0146	0.0475	0.6018	1.0472	0.0188	0.3485	0.0179	0.3328
48	16.88	-0.05	0.0209	0.0012	0.0158	0.0548	0.7543	1.0630	0.0202	0.3508	0.0190	0.3300
49	17.19	-0.04	0.0209	0.0012	0.0158	0.0598	0.7543	1.0656	0.0268	0.3447	0.0252	0.3235
50	17.53	-0.05	0.0211	0.0008	0.0157	0.0403	0.7455	1.0695	0.0282	0.3456	0.0264	0.3231
51	17.86	-0.05	0.0229	0.0007	0.0147	0.0327	0.6433	1.0946	0.0255	0.3498	0.0233	0.3196
52	18.20	-0.05	0.0225	0.0015	0.0137	0.0667	0.6088	1.0752	0.0351	0.3389	0.0326	0.3152
53	18.54	-0.05	0.0270	0.0014	0.0155	0.0537	0.5888	1.0908	0.0323	0.3437	0.0296	0.3151
54	18.87	-0.06	0.0273	0.0012	0.0151	0.0456	0.5530	1.1001	0.0352	0.3442	0.0320	0.3129
55	19.18	-0.06	0.0317	0.0015	0.0162	0.0489	0.5099	1.1101	0.0344	0.3466	0.0310	0.3122
56	19.51	-0.05	0.0268	0.0014	0.0178	0.0541	0.6653	1.1219	0.0334	0.3500	0.0298	0.3120
57	19.84	-0.06	0.0228	0.0009	0.0148	0.0417	0.6490	1.1306	0.0340	0.3480	0.0301	0.3078
58	20.16	-0.04	0.0318	0.0011	0.0181	0.0362	0.5691	1.1372	0.0328	0.3531	0.0289	0.3105
59	20.50	-0.05	0.0259	0.0008	0.0161	0.0328	0.6228	1.1440	0.0336	0.3529	0.0294	0.3085
60	20.84	-0.04	0.0273	0.0010	0.0168	0.0385	0.6153	1.1532	0.0350	0.3507	0.0304	0.3041
61	21.16	-0.05	0.0334	0.0011	0.0188	0.0344	0.5638	1.1652	0.0320	0.3605	0.0275	0.3094
62	21.47	-0.05	0.0347	0.0013	0.0198	0.0389	0.5695	1.1761	0.0326	0.3622	0.0278	0.3080
63	21.78	-0.05	0.0318	0.0013	0.0182	0.0409	0.5722	1.1537	0.0366	0.3491	0.0319	0.3026
64	22.08	-0.05	0.0360	0.0017	0.0208	0.0472	0.5777	1.1899	0.0336	0.3633	0.0282	0.3053
65	22.40	-0.05	0.0320	0.0011	0.0182	0.0359	0.5676	1.1614	0.0346	0.3512	0.0298	0.3024
66	22.71	-0.05	0.0262	0.0009	0.0156	0.0343	0.5966	1.1518	0.0355	0.3392	0.0308	0.2945
67	23.03	-0.05	0.0349	0.0012	0.0198	0.0358	0.5682	1.1933	0.0366	0.3599	0.0307	0.3016
68	23.34	-0.05	0.0394	0.0016	0.0198	0.0406	0.5033	1.2024	0.0346	0.3627	0.0288	0.3016
69	23.64	-0.06	0.0380	0.0014	0.0201	0.0368	0.5280	1.1404	0.0314	0.3416	0.0276	0.2995
70	23.98	-0.08	0.0333	0.0016	0.0184	0.0480	0.5674	1.1874	0.0321	0.3608	0.0270	0.3038
71	24.29	-0.06	0.0379	0.0013	0.0211	0.0356	0.5575	1.1565	0.0298	0.3434	0.0258	0.2969
72	24.61	-0.07	0.0422	0.0018	0.0234	0.0426	0.5536	1.1850	0.0286	0.3393	0.0242	0.2863
73	24.88	-0.06	0.0411	0.0013	0.0211	0.0328	0.5133	1.1404	0.0285	0.3392	0.0250	0.2974
74	25.17	-0.07	0.0382	0.0011	0.0204	0.0301	0.5348	1.1490	0.0275	0.3344	0.0240	0.2910
75	25.45	-0.07	0.0441	0.0016	0.0225	0.0363	0.5101	1.2100	0.0295	0.3522	0.0244	0.2911
76	25.76	-0.07	0.0427	0.0015	0.0218	0.0363	0.5112	1.1322	0.0250	0.3264	0.0221	0.2883
77	26.05	-0.08	0.0427	0.0014	0.0235	0.0328	0.5510	1.1474	0.0244	0.3346	0.0213	0.2916
78	26.35	-0.07	0.0475	0.0011	0.0246	0.0242	0.5058	1.1252	0.0231	0.3281	0.0206	0.2916
79	26.66	-0.08	0.0457	0.0014	0.0234	0.0306	0.5126	1.1237	0.0214	0.3254	0.0190	0.2896
80	26.98	-0.08	0.0487	0.0015	0.0244	0.0308	0.5016	1.1207	0.0189	0.3255	0.0169	0.2905
81	27.28	-0.07	0.0517	0.0014	0.0253	0.0280	0.4899	1.1304	0.0206	0.3258	0.0182	0.2882
82	27.60	-0.08	0.0423	0.0013	0.0245	0.0319	0.5791	1.1333	0.0218	0.3280	0.0192	0.2895
83	27.89	-0.07	0.0457	0.0010	0.0232	0.0230	0.5083	1.1183	0.0132	0.3214	0.0118	0.2874
84	28.19	-0.07	0.0420	0.0017	0.0245	0.0405	0.5832	1.1193	0.0141	0.3257	0.0126	0.2910
85	28.49	-0.10	0.0523	0.0024	0.0280	0.0468	0.5359	1.1216	0.0097	0.3243	0.0087	0.2892
86	28.80	-0.09	0.0515	0.0014	0.0270	0.0482	0.5235	1.1180	0.0102	0.3234	0.0092	0.2893
87	29.12	-0.03	0.0560	0.0018	0.0286	0.0330	0.5100	1.1080	0.0083	0.3231	0.0075	0.2916
88	29.43	-0.03	0.0560	0.0017	0.0306	0.0304	0.5457	1.0932	0.0079	0.3169	0.0072	0.2899

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	15	0.97	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CM	CY	CLN	CLL	CAF	XCP	
1	-2.74	-0.01	-0.4315	1.1281	-0.1176	-0.0194	0.0120	0.2431	-2.6141	
2	-2.56	0.02	-0.4406	1.0688	0.0308	-0.0841	0.0100	0.2384	-2.4256	
3	-1.95	-0.03	-0.3005	0.7716	0.0446	-0.1924	0.0140	0.2404	-2.5681	
4	-1.36	-0.08	-0.2123	0.5162	0.0021	-0.0499	0.0110	0.2451	-2.4316	
5	-0.78	0.04	-0.1219	0.3036	0.0005	-0.0887	0.0100	0.2483	-2.4911	
6	-0.26	0.04	-0.0513	0.1208	0.0058	-0.0321	0.0080	0.2480	-2.3552	
7	0.28	0.05	0.0568	-0.1355	0.0483	-0.0126	0.0100	0.2513	-2.3859	
8	0.77	0.02	0.1018	-0.2915	0.1281	-0.1083	0.0130	0.2585	-2.8637	
9	1.29	0.03	0.1829	-0.4250	0.0613	-0.1168	0.0200	0.2623	-2.3240	
10	1.77	-0.03	0.3017	-0.7263	-0.0176	-0.0823	0.0160	0.2629	-2.4076	
11	2.23	-0.04	0.3647	-0.9075	-0.0144	-0.0128	0.0120	0.2635	-2.4886	
12	2.72	0.01	0.4511	-1.1515	0.0073	-0.1022	0.0130	0.2657	-2.5525	
13	3.19	0.01	0.5243	-1.3770	0.0868	-0.1185	0.0150	0.2620	-2.6262	
14	3.68	0.0	0.6151	-1.5911	-0.0189	-0.0735	0.0150	0.2664	-2.5866	
15	4.13	0.0	0.7052	-1.7882	-0.0292	-0.0301	0.0190	0.2702	-2.5357	
16	4.59	0.05	0.8045	-2.0742	0.0686	-0.0270	0.0150	0.2706	-2.5844	
17	5.03	-0.06	0.9137	-2.3300	0.0887	0.0208	0.0160	0.2644	-2.5501	
18	5.48	-0.08	0.9657	-2.5228	-0.0099	-0.1061	0.0180	0.2721	-2.6125	
19	5.92	-0.01	1.0533	-2.7404	-0.0165	-0.0513	0.0160	0.2719	-2.6018	
20	6.37	-0.02	1.1257	-2.9107	-0.0153	-0.0616	0.0190	0.2763	-2.5858	
21	6.82	-0.06	1.2237	-3.1460	-0.0155	-0.0503	0.0170	0.2723	-2.5708	
22	7.25	-0.02	1.3122	-3.3629	-0.0309	-0.0907	0.0200	0.2788	-2.5628	
23	7.68	-0.04	1.3946	-3.6052	-0.0041	0.0287	0.0160	0.2751	-2.5851	
24	8.11	0.0	1.4761	-3.7723	0.0128	-0.0649	0.0150	0.2731	-2.5556	
25	8.56	-0.01	1.5631	-3.9901	0.0819	-0.0177	0.0230	0.2611	-2.5527	
26	8.95	-0.03	1.6235	-4.1496	-0.0516	-0.0118	0.0190	0.2640	-2.5560	
27	9.34	-0.07	1.7225	-4.3662	0.1256	-0.0288	0.0200	0.2579	-2.5348	
28	9.77	-0.05	1.7958	-4.5428	-0.0788	-0.0257	0.0200	0.2497	-2.5297	
29	10.15	-0.02	1.8304	-4.6312	-0.0231	0.1333	0.0170	0.2406	-2.5302	
30	10.57	-0.04	1.9736	-4.9008	0.0190	-0.0406	0.0230	0.2334	-2.4831	
31	10.94	-0.03	2.0369	-5.0314	0.0293	0.0690	0.0140	0.2240	-2.4701	
32	11.30	-0.04	2.0853	-5.1952	0.0631	0.1536	0.0110	0.2284	-2.4913	
33	11.66	-0.04	2.1431	-5.3571	-0.1111	-0.0095	0.0390	0.2222	-2.4997	
34	12.02	-0.09	2.3018	-5.6242	-0.0451	0.1401	0.0070	0.2239	-2.4434	
35	12.40	-0.06	2.3187	-5.6479	0.0089	0.1465	0.0180	0.2171	-2.4358	
36	12.76	-0.04	2.4509	-5.9459	-0.0245	0.1468	0.0140	0.2166	-2.4260	
37	13.12	-0.05	2.5363	-6.1424	0.0176	0.0694	0.0060	0.2159	-2.4218	
38	13.45	-0.06	2.5694	-6.2308	-0.1044	0.1591	0.0040	0.2101	-2.4250	
39	13.82	-0.02	2.6789	-6.4152	-0.0314	0.1869	0.0040	0.2077	-2.3947	
40	14.19	-0.05	2.7758	-6.5828	0.0451	0.3168	0.0040	0.2069	-2.3715	
41	14.51	-0.05	2.8346	-6.7751	-0.0908	0.1601	0.0040	0.2060	-2.3901	
42	14.85	-0.06	2.8876	-6.8743	-0.0907	0.1740	-0.0010	0.2053	-2.3806	
43	15.19	-0.05	2.9905	-7.0683	-0.0906	0.3038	0.0030	0.2075	-2.3636	
44	15.53	-0.05	3.0691	-7.1404	0.0640	0.2274	0.0050	0.1983	-2.3265	
45	15.85	-0.03	3.1814	-7.3476	-0.0852	0.3402	0.0070	0.2061	-2.3095	
46	16.20	-0.06	3.2091	-7.4473	-0.0646	0.1824	-0.0070	0.2066	-2.3207	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	15	0.97	1.7	0.0	0.82	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.53	-0.06	3.3150	-7.5566	0.0136	-0.0620	-0.0100	0.2006	-2.2795	
48	16.85	-0.04	3.3960	-7.6020	-0.0117	0.3093	-0.0060	0.1894	-2.2385	
49	17.18	-0.07	3.4618	-7.7912	-0.0049	0.0828	-0.0100	0.1941	-2.2506	
50	17.50	-0.04	3.5182	-7.8731	0.0258	0.1309	-0.0160	0.1880	-2.2378	
51	17.85	-0.05	3.5966	-8.0159	-0.0402	0.2872	-0.0120	0.1845	-2.2287	
52	18.18	-0.07	3.6790	-8.1212	-0.0705	0.2507	-0.0170	0.1749	-2.2074	
53	18.53	-0.03	3.7960	-8.2330	0.0026	0.3023	-0.0210	0.1717	-2.1689	
54	18.85	-0.06	3.8481	-8.3499	-0.1211	0.2865	-0.0170	0.1645	-2.1699	
55	19.18	-0.06	3.9691	-8.4743	0.0183	0.2463	-0.0240	0.1597	-2.1351	
56	19.49	-0.06	4.0207	-8.5566	-0.0021	0.1189	-0.0200	0.1470	-2.1281	
57	19.82	-0.05	4.1182	-8.6530	0.0083	0.1294	-0.0230	0.1476	-2.1012	
58	20.16	-0.06	4.1988	-8.7759	-0.0698	0.1117	-0.0170	0.1491	-2.0901	
59	20.47	-0.06	4.2500	-8.8327	0.0	0.1850	-0.0220	0.1346	-2.0743	
60	20.83	-0.06	4.4510	-8.9771	-0.0828	0.0749	-0.0240	0.1359	-2.0169	
61	21.14	-0.03	4.4604	-8.9522	0.1165	0.0749	-0.0410	0.1298	-2.0070	
62	21.47	-0.07	4.5534	-9.0114	-0.0552	0.2073	-0.0420	0.1235	-1.9791	
63	21.78	-0.07	4.6066	-9.1039	0.0095	-0.0173	-0.0390	0.1212	-1.9763	
64	22.09	-0.07	4.6510	-9.1050	0.0420	0.0012	-0.0370	0.1213	-1.9577	
65	22.41	-0.07	4.7074	-9.0540	0.0435	-0.1599	-0.0390	0.1254	-1.9234	
66	22.72	-0.05	4.7351	-9.0358	0.1101	-0.1461	-0.0100	0.1209	-1.9083	
67	23.05	-0.06	4.8176	-8.9923	0.1156	-0.1758	-0.0030	0.1179	-1.8666	
68	23.35	-0.05	4.8639	-9.0741	0.1759	-0.0473	-0.0270	0.1126	-1.8656	
69	23.67	-0.04	4.9091	-9.0494	0.1962	-0.2856	-0.0040	0.1027	-1.8434	
70	24.02	-0.09	5.0333	-8.9574	-0.0538	0.1083	-0.0550	0.0988	-1.7796	
71	24.30	-0.08	4.9457	-8.7917	0.0671	-0.1159	-0.0560	0.0930	-1.7777	
72	24.65	-0.05	5.1885	-8.8597	0.1445	0.0227	-0.0710	0.0958	-1.7076	
73	24.95	-0.09	5.2566	-8.7401	0.0034	-0.0118	-0.0570	0.0878	-1.6627	
74	25.28	-0.07	5.3843	-8.6389	0.0957	0.0720	-0.0900	0.0812	-1.6045	
75	25.58	-0.08	5.3776	-8.4675	0.0279	-0.1680	-0.0640	0.0756	-1.5746	
76	25.87	-0.07	5.4222	-8.4600	0.0536	-0.2010	-0.0440	0.0621	-1.5602	
77	26.17	-0.07	5.5398	-8.3566	0.1359	-0.1552	-0.0060	0.0548	-1.5085	
78	26.48	-0.08	5.5411	-8.0295	0.1442	-0.3868	-0.0620	0.0503	-1.4491	
79	26.79	-0.07	5.6002	-7.9942	0.0655	-0.1707	-0.0580	0.0435	-1.4275	
80	27.10	-0.07	5.6942	-7.9408	0.2317	-0.3813	-0.0390	0.0356	-1.3946	
81	27.43	-0.05	5.7455	-7.8458	0.1077	0.0592	-0.1170	0.0359	-1.3655	
82	27.72	-0.08	5.8360	-7.8165	0.1483	-0.3016	-0.0680	0.0283	-1.3393	
83	28.05	-0.07	5.9492	-7.7010	0.0845	-0.0983	-0.0680	0.0214	-1.2945	
84	28.35	-0.07	5.9764	-7.5901	0.2170	-0.5397	-0.0490	0.0136	-1.2700	
85	28.66	-0.07	6.0749	-7.6870	0.0812	-0.1737	-0.0500	0.0071	-1.2654	
86	28.97	-0.09	6.1646	-7.5726	0.1414	-0.3299	-0.0530	-0.0011	-1.2284	
87	29.29	-0.09	6.2848	-7.5459	0.0911	-0.2755	-0.0600	-0.0072	-1.2013	
88	29.60	-0.07	6.3965	-7.7032	0.2426	-0.3706	-0.0620	-0.0116	-1.2044	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CNLF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION		
6 15 0.97 1.7			0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	C81	XCPF1	YCPF1	CNF2	CM2	C82	XCPF2	YCPF2
1	-2.74	-0.01	-0.0425	-0.0001	0.0084	0.0035	-0.1986	-0.1595	0.0007	-0.0741	-0.0047	0.4649
2	-2.56	0.02	-0.0552	-0.0000	0.0030	-0.0009	-0.0545	-0.1523	0.0007	-0.0689	-0.0049	0.4527
3	-1.95	-0.03	-0.0402	-0.0002	0.0112	0.0062	-0.2787	-0.1075	0.0006	-0.0493	-0.0056	0.4588
4	-1.36	-0.08	-0.0447	0.0001	0.0077	-0.0034	-0.1724	-0.0724	0.0005	-0.0375	-0.0076	0.5183
5	-0.78	0.04	-0.0492	-0.0000	0.0080	0.0010	-0.1627	-0.0349	-0.0001	-0.0234	0.0043	0.6713
6	-0.26	0.04	-0.0436	0.0000	0.0093	-0.0011	-0.2127	-0.0116	0.0000	-0.0100	-0.0043	0.8591
7	0.28	0.05	-0.0442	-0.0002	0.0101	0.0057	-0.2279	0.0283	0.0005	0.0051	0.0177	0.1813
8	0.77	0.02	-0.0490	-0.0001	0.0066	0.0031	-0.1341	0.0598	0.0001	0.0147	0.0025	0.2463
9	1.29	0.03	-0.0348	0.0000	0.0153	-0.0014	-0.4398	0.0775	0.0002	0.0235	0.0032	0.3035
10	1.77	-0.03	-0.0388	-0.0002	0.0118	0.0052	-0.3034	0.1247	-0.0001	0.0445	-0.0012	0.3573
11	2.23	-0.04	-0.0466	-0.0001	0.0096	0.0032	-0.2054	0.1505	0.0	0.0540	0.0	0.3591
12	2.72	0.01	-0.0446	-0.0005	0.0110	0.0112	-0.2475	0.1863	-0.0001	0.0700	-0.0005	0.3756
13	3.19	0.01	-0.0395	-0.0006	0.0128	0.0152	-0.3250	0.2130	-0.0001	0.0813	-0.0005	0.3816
14	3.68	0.0	-0.0401	-0.0010	0.0129	0.0249	-0.3226	0.2499	-0.0002	0.0970	-0.0008	0.3880
15	4.13	0.0	-0.0463	-0.0010	0.0090	0.0216	-0.1938	0.2833	0.0001	0.1068	0.0004	0.3770
16	4.59	0.05	-0.0445	-0.0015	0.0098	0.0348	-0.2196	0.3164	0.0001	0.1213	0.0003	0.3835
17	5.03	-0.06	-0.0453	-0.0020	0.0100	0.0441	-0.2209	0.3445	0.0001	0.1335	0.0004	0.3875
18	5.48	-0.08	-0.0437	-0.0026	0.0120	0.0595	-0.2755	0.3783	0.0001	0.1439	0.0003	0.3803
19	5.92	-0.01	-0.0444	-0.0024	0.0095	0.0540	-0.2231	0.4040	0.0	0.1547	0.0	0.3830
20	6.37	0.02	-0.0444	-0.0030	0.0122	0.0687	-0.2749	0.4377	0.0003	0.1669	0.0008	0.3812
21	6.82	-0.06	-0.0469	-0.0030	0.0104	0.0650	-0.2212	0.4660	0.0002	0.1762	0.0004	0.3781
22	7.25	-0.02	-0.0536	-0.0030	0.0092	0.0569	-0.1724	0.4923	0.0001	0.1840	0.0002	0.3738
23	7.68	-0.04	-0.0542	-0.0026	0.0092	0.0480	-0.1705	0.5219	0.0001	0.1963	0.0003	0.3761
24	8.11	0.0	-0.0525	-0.0039	0.0111	0.0752	-0.2115	0.5455	0.0001	0.2039	0.0002	0.3737
25	8.56	-0.01	-0.0521	-0.0044	0.0125	0.0854	-0.2407	0.5706	0.0	0.2111	0.0	0.3700
26	8.95	-0.03	-0.0545	-0.0044	0.0114	0.0807	-0.2099	0.5911	-0.0002	0.2184	-0.0003	0.3694
27	9.34	-0.07	-0.0567	-0.0040	0.0116	0.0705	-0.2047	0.6250	0.0001	0.2268	0.0002	0.3660
28	9.77	-0.05	-0.0629	-0.0045	0.0114	0.0723	-0.1819	0.6367	0.0002	0.2328	0.0003	0.3657
29	10.15	-0.02	-0.0696	-0.0046	0.0099	0.0661	-0.1424	0.6524	0.0008	0.2378	0.0013	0.3645
30	10.57	-0.04	-0.0637	-0.0057	0.0127	0.0503	-0.1990	0.6873	0.0008	0.2493	0.0012	0.3627
31	10.94	-0.03	-0.0700	-0.0048	0.0098	0.0686	-0.1396	0.6996	0.0012	0.2520	0.0018	0.3602
32	11.30	-0.04	-0.0800	-0.0052	0.0081	0.0656	-0.1018	0.7233	0.0017	0.2592	0.0024	0.3584
33	11.66	-0.04	-0.0875	-0.0042	0.0041	0.0466	-0.0474	0.7452	0.0023	0.2645	0.0031	0.3550
34	12.02	-0.09	-0.0840	-0.0045	0.0045	0.0536	-0.0537	0.7736	0.0021	0.2748	0.0028	0.3552
35	12.40	-0.06	-0.0885	-0.0070	0.0087	0.0796	-0.0984	0.7778	0.0018	0.2750	0.0024	0.3535
36	12.76	-0.04	-0.0855	-0.0051	0.0083	0.0602	-0.0972	0.8143	0.0011	0.2865	0.0014	0.3519
37	13.12	-0.05	-0.0946	-0.0060	0.0030	0.0635	-0.0315	0.8335	0.0011	0.2920	0.0013	0.3504
38	13.45	-0.06	-0.0942	-0.0058	0.0035	0.0616	-0.0373	0.8499	0.0002	0.2952	0.0003	0.3473
39	13.82	-0.02	-0.0990	-0.0061	0.0042	0.0621	-0.0425	0.8739	0.0002	0.3021	0.0003	0.3457
40	14.19	-0.05	-0.1003	-0.0070	0.0031	0.0703	-0.0307	0.8864	0.0004	0.3070	0.0005	0.3463
41	14.51	-0.05	-0.1029	-0.0070	0.0017	0.0685	-0.0166	0.9041	0.0009	0.3100	0.0011	0.3428
42	14.85	-0.06	-0.1071	-0.0057	-0.0028	0.0537	0.0260	0.9270	0.0010	0.3174	0.0011	0.3424
43	15.19	-0.05	-0.1037	-0.0060	-0.0008	0.0578	0.0073	0.9431	0.0006	0.3220	0.0006	0.3414
44	15.53	-0.05	-0.1119	-0.0076	0.0005	0.0679	-0.0046	0.9567	0.0016	0.3238	0.0017	0.3384
45	15.85	-0.03	-0.1175	-0.0070	-0.0013	0.0600	0.0107	0.9796	0.0017	0.3290	0.0018	0.3359
46	16.20	-0.06	-0.1187	-0.0033	-0.0094	0.0278	0.0788	0.9986	0.0027	0.3320	0.0028	0.3324

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	15	0.97	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CH1	XCFF1	YCFF1	CNF2	CH2	CH2	XCFF2	YCFF2	
47	16.53	-0.06	-0.1158	-0.0032	-0.0082	0.0281	0.0707	1.0054	0.0031	0.3363	0.0031	0.3345	
48	16.85	-0.04	-0.1337	-0.0067	-0.0075	0.0505	0.0595	1.0127	0.0038	0.3373	0.0038	0.3330	
49	17.18	-0.07	-0.1236	-0.0046	-0.0064	0.0372	0.0517	1.0275	0.0039	0.3397	0.0038	0.3306	
50	17.50	-0.04	-0.1081	0.0011	-0.0147	-0.0102	0.1362	1.0541	0.0058	0.3460	0.0055	0.3283	
51	17.85	-0.05	-0.1227	-0.0035	-0.0121	0.0289	0.0985	1.0610	0.0049	0.3471	0.0047	0.3272	
52	18.18	-0.07	-0.1129	-0.0009	-0.0145	0.0084	0.1286	1.0867	0.0055	0.3527	0.0051	0.3246	
53	18.53	-0.03	-0.1304	-0.0039	-0.0120	0.0303	0.0924	1.0975	0.0049	0.3551	0.0045	0.3236	
54	18.85	-0.06	-0.1184	-0.0017	-0.0130	0.0144	0.1094	1.1117	0.0053	0.3598	0.0048	0.3237	
55	19.18	-0.06	-0.1301	-0.0021	-0.0131	0.0161	0.1011	1.1247	0.0049	0.3637	0.0044	0.3233	
56	19.49	-0.06	-0.1236	-0.0007	-0.0160	0.0057	0.1293	1.1398	0.0056	0.3677	0.0049	0.3226	
57	19.82	-0.05	-0.1230	0.0085	-0.0163	-0.0061	0.1324	1.1576	0.0057	0.3708	0.0049	0.3203	
58	20.16	-0.06	-0.1200	0.0003	-0.0202	-0.0029	0.1682	1.1724	0.0051	0.3755	0.0044	0.3203	
59	20.47	-0.06	-0.1154	0.0007	-0.0197	-0.0061	0.1712	1.1863	0.0055	0.3775	0.0045	0.3188	
60	20.83	-0.06	-0.1284	0.0003	-0.0154	-0.0023	0.1510	1.2004	0.0050	0.3830	0.0042	0.3191	
61	21.14	-0.03	-0.1067	0.0021	-0.0173	-0.0201	0.1617	1.2081	0.0064	0.3828	0.0053	0.3168	
62	21.47	-0.07	-0.1019	0.0035	-0.0159	-0.0348	0.1556	1.2301	0.0066	0.3862	0.0054	0.3140	
63	21.78	-0.07	-0.0766	0.0055	-0.0071	-0.0718	0.0930	1.2370	0.0099	0.3847	0.0080	0.3110	
64	22.09	-0.07	-0.0694	0.0043	-0.0040	-0.0619	0.0580	1.2427	0.0107	0.3876	0.0086	0.3119	
65	22.41	-0.07	-0.0570	0.0035	0.0017	-0.0693	0.0299	1.2244	0.0186	0.3730	0.0152	0.3046	
66	22.72	-0.05	-0.0589	-0.0013	0.0045	0.0229	-0.0827	1.2339	0.0181	0.3758	0.0147	0.3045	
67	23.05	-0.06	-0.0562	0.0019	0.0013	-0.0338	-0.0227	1.2309	0.0197	0.3718	0.0160	0.3020	
68	23.35	-0.05	-0.0648	0.0031	-0.0024	-0.0486	0.0369	1.2389	0.0200	0.3698	0.0161	0.2985	
69	23.67	-0.04	-0.0437	0.0048	0.0043	-0.1098	-0.0993	1.2469	0.0211	0.3716	0.0170	0.2980	
70	24.02	-0.09	-0.0717	0.0034	0.0018	-0.0401	-0.0252	1.2590	0.0194	0.3768	0.0154	0.2993	
71	24.30	-0.08	-0.0498	0.0036	0.0064	-0.0723	-0.1286	1.2449	0.0212	0.3685	0.0171	0.2960	
72	24.65	-0.05	-0.0723	0.0033	-0.0026	-0.0463	0.0358	1.2851	0.0183	0.3840	0.0143	0.2988	
73	24.95	-0.09	-0.0353	0.0038	0.0138	-0.1076	-0.3920	1.2713	0.0191	0.3765	0.0151	0.2962	
74	25.28	-0.07	-0.0971	0.0060	-0.0166	-0.0623	0.1705	1.2969	0.0174	0.3866	0.0135	0.2981	
75	25.58	-0.08	-0.0780	0.0069	-0.0081	-0.0891	0.0781	1.2957	0.0185	0.3840	0.0143	0.2964	
76	25.87	-0.07	-0.0481	0.0064	-0.0010	-0.1330	0.0214	1.2904	0.0194	0.3820	0.0150	0.2960	
77	26.17	-0.07	-0.0326	0.0010	0.0124	-0.0307	-0.3815	1.2609	0.0174	0.3683	0.0138	0.2921	
78	26.48	-0.08	-0.0169	-0.0015	0.0292	0.1154	-1.7260	1.2520	0.0158	0.3613	0.0126	0.2886	
79	26.79	-0.07	-0.0751	-0.0000	-0.0007	0.0007	0.0096	1.2576	0.0164	0.3681	0.0131	0.2927	
80	27.10	-0.07	-0.0097	-0.0061	0.0376	0.6288	-3.8730	1.2365	0.0141	0.3572	0.0114	0.2889	
81	27.43	-0.05	-0.1000	0.0006	-0.0121	-0.0060	0.1212	1.2773	0.0155	0.3704	0.0121	0.2900	
82	27.72	-0.08	-0.0504	-0.0058	0.0218	0.1151	-0.4327	1.2839	0.0146	0.3722	0.0114	0.2899	
83	28.05	-0.07	-0.0405	-0.0020	-0.0054	0.0248	0.0674	1.2815	0.0138	0.3708	0.0108	0.2894	
84	28.35	-0.07	0.0025	-0.0085	0.0394	-3.3994	15.7732	1.2761	0.0132	0.3696	0.0104	0.2897	
85	28.66	-0.07	-0.0423	-0.0057	0.0234	0.1359	-0.5533	1.2739	0.0124	0.3668	0.0098	0.2879	
86	28.97	-0.09	-0.0350	-0.0045	0.0137	0.1300	-0.3925	1.2880	0.0133	0.3740	0.0103	0.2904	
87	29.29	-0.09	-0.0192	-0.0070	0.0272	0.3671	-1.4168	1.2807	0.0115	0.3674	0.0090	0.2869	
88	29.60	-0.07	-0.0033	-0.0094	0.0408	2.8631	-12.3638	1.3503	0.0148	0.3912	0.0110	0.2897	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	15	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YCPF3	CNF4	CH4	CB4	XC PF4	YCPF4
1	-2.74	-0.01	0.0024	0.0006	0.0005	0.2708	0.2082	-0.2029	0.0003	-0.0645	-0.0017	0.3179
2	-2.50	0.02	-0.0045	0.0005	-0.0022	-0.1222	0.4888	-0.1839	0.0005	-0.0601	-0.0027	0.3267
3	-1.95	-0.03	-0.0047	0.0007	-0.0010	-0.1595	0.2056	-0.1500	-0.0000	-0.0441	0.0003	0.2939
4	-1.36	-0.08	-0.0035	0.0009	0.0001	-0.2714	-0.0382	-0.1127	-0.0001	-0.0262	0.0009	0.2329
5	-0.78	0.04	0.0050	0.0010	0.0012	0.2000	0.2332	-0.0711	-0.0002	-0.0114	0.0035	0.1602
6	-0.26	0.04	0.0090	0.0008	0.0047	0.0944	0.5221	-0.0468	-0.0033	0.0007	0.0075	-0.0151
7	0.28	0.05	0.0009	0.0007	0.0009	0.7776	0.9999	-0.0062	-0.0001	0.0172	0.0161	-2.7797
8	0.77	0.02	0.0020	0.0009	0.0023	0.4749	1.1332	0.0256	0.0001	0.0310	0.0039	1.2121
9	1.29	0.03	0.0012	0.0015	0.0041	0.2152	0.5693	-0.0465	-0.0006	0.0407	-0.0129	0.8751
10	1.77	-0.03	0.0007	0.0009	0.0009	1.3569	1.3332	-0.0882	-0.0035	0.0580	-0.0062	0.6575
11	2.23	-0.04	0.0020	0.0010	0.0015	0.5249	0.7332	0.1142	-0.0003	0.0688	-0.0031	0.6029
12	2.72	0.01	0.0018	0.0009	0.0040	0.5277	2.2221	0.1556	-0.0005	0.0852	-0.0035	0.5479
13	3.19	0.01	0.0013	0.0012	0.0048	0.1712	0.8620	0.1883	-0.0006	0.0973	-0.0035	0.5170
14	3.68	0.0	0.0012	0.0012	0.0051	0.1736	0.7382	0.2213	-0.0033	0.1096	-0.0016	0.4954
15	4.13	0.0	0.0029	0.0011	0.0054	0.3565	1.8505	0.2638	-0.0032	0.1265	-0.0008	0.4795
16	4.59	0.05	0.0074	0.0011	0.0041	0.1488	0.5494	0.2978	-0.0032	0.1391	-0.0008	0.4672
17	5.03	-0.06	0.0042	0.0012	0.0062	0.2857	1.4761	0.3292	-0.0001	0.1525	-0.0005	0.4632
18	5.48	-0.08	0.0070	0.0012	0.0065	0.1785	0.9332	0.3570	-0.0005	0.1636	-0.0015	0.4581
19	5.92	-0.01	0.0099	0.0010	0.0070	0.1060	0.7370	0.3870	-0.0005	0.1744	-0.0014	0.4505
20	6.37	0.02	0.0031	0.0011	0.0038	0.3548	1.2364	0.4116	-0.0002	0.1839	-0.0005	0.4466
21	6.82	-0.06	0.0071	0.0011	0.0066	0.1549	0.9248	0.4450	-0.0004	0.1958	-0.0010	0.4399
22	7.25	-0.02	0.0046	0.0006	0.0056	0.1413	1.2245	0.4735	-0.0033	0.2070	-0.0007	0.4371
23	7.68	-0.04	0.0070	0.0010	0.0073	0.1500	1.0475	0.5042	-0.0009	0.2191	-0.0018	0.4345
24	8.11	0.0	0.0195	0.0010	0.0101	0.0538	0.5178	0.5325	-0.0011	0.2278	-0.0021	0.4278
25	8.56	-0.01	0.0096	0.0013	0.0080	0.1354	0.8332	0.5595	-0.0011	0.2380	-0.0020	0.4254
26	8.95	-0.03	0.0153	0.0009	0.0100	0.0621	0.6535	0.5818	-0.0011	0.2442	-0.0019	0.4197
27	9.34	-0.07	0.0135	0.0015	0.0100	0.1148	0.7406	0.6157	-0.0011	0.2565	-0.0018	0.4167
28	9.77	-0.05	0.0190	0.0014	0.0118	0.0763	0.6227	0.6314	-0.0009	0.2620	-0.0015	0.4149
29	10.15	-0.02	0.0166	0.0008	0.0111	0.0512	0.6706	0.6525	-0.0012	0.2668	-0.0018	0.4089
30	10.57	-0.04	0.0152	0.0010	0.0106	0.0691	0.6451	0.6854	-0.0004	0.2785	-0.0006	0.4063
31	10.94	-0.03	0.0110	0.0009	0.0103	0.0863	0.9332	0.6972	-0.0003	0.2812	-0.0004	0.4033
32	11.30	-0.04	0.0192	0.0011	0.0118	0.0599	0.6145	0.7227	-0.0003	0.2898	-0.0005	0.4010
33	11.66	-0.04	0.0152	0.0011	0.0095	0.0724	0.6490	0.7377	-0.0002	0.2932	-0.0003	0.3975
34	12.02	-0.09	0.0193	0.0012	0.0111	0.0648	0.5767	0.7698	-0.0003	0.3053	-0.0004	0.3966
35	12.40	-0.06	0.0149	0.0013	0.0114	0.0506	0.7627	0.7952	-0.0006	0.3112	-0.0008	0.3914
36	12.76	-0.04	0.0195	0.0008	0.0118	0.0436	0.6050	0.8214	-0.0006	0.3198	-0.0008	0.3893
37	13.12	-0.05	0.0334	0.0005	0.0164	0.0165	0.5069	0.8456	-0.0012	0.3277	-0.0014	0.3875
38	13.45	-0.06	0.0235	0.0009	0.0138	0.0404	0.5885	0.8584	-0.0013	0.3302	-0.0016	0.3847
39	13.82	-0.02	0.0237	0.0003	0.0153	0.0148	0.6455	0.8843	-0.0012	0.3370	-0.0014	0.3810
40	14.19	-0.05	0.0166	0.0009	0.0121	0.0542	0.7308	0.8963	-0.0012	0.3419	-0.0014	0.3814
41	14.51	-0.05	0.0333	0.0006	0.0177	0.0180	0.5314	0.9203	-0.0015	0.3495	-0.0016	0.3797
42	14.85	-0.06	0.0252	0.0001	0.0162	0.0040	0.6427	0.9410	-0.0012	0.3537	-0.0013	0.3758
43	15.19	-0.05	0.0224	0.0004	0.0145	0.0179	0.6457	0.9605	-0.0017	0.3589	-0.0018	0.3736
44	15.53	-0.05	0.0306	0.0005	0.0170	0.0163	0.5554	0.9782	-0.0012	0.3649	-0.0012	0.3731
45	15.85	-0.03	0.0247	0.0010	0.0152	0.0425	0.6166	1.0012	-0.0011	0.3697	-0.0011	0.3693
46	16.20	-0.06	0.0333	0.0	0.0202	0.0	0.6065	1.0023	-0.0013	0.3720	-0.0013	0.3711

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			PACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			15		0.97 1.7		0.0 B2WOF12		0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	16.53	-0.06	0.0425	0.0008	0.0220	0.0188	0.5167	1.0237	-0.0007	0.3766	-0.0007	0.3679		
48	16.85	-0.04	0.0426	0.0009	0.0208	0.0223	0.4881	1.0432	0.0008	0.3808	0.0008	0.3650		
49	17.18	-0.07	0.0440	0.0007	0.0219	0.0170	0.4969	1.0494	0.0015	0.3825	0.0014	0.3645		
50	17.50	-0.04	0.0370	0.0012	0.0189	0.0324	0.5116	1.0482	0.0017	0.3826	0.0016	0.3650		
51	17.85	-0.05	0.0412	0.0009	0.0209	0.0231	0.5080	1.0768	0.0030	0.3888	0.0028	0.3611		
52	18.18	-0.07	0.0273	0.0011	0.0164	0.0421	0.6006	1.0860	0.0036	0.3893	0.0033	0.3584		
53	18.53	-0.03	0.0356	0.0008	0.0214	0.0225	0.6001	1.1063	0.0041	0.3965	0.0037	0.3584		
54	18.85	-0.06	0.0389	0.0003	0.0203	0.0077	0.5209	1.1168	0.0036	0.3990	0.0032	0.3573		
55	19.18	-0.06	0.0413	0.0006	0.0223	0.0145	0.5390	1.1317	0.0045	0.4029	0.0040	0.3560		
56	19.49	-0.06	0.0426	0.0013	0.0203	0.0399	0.6216	1.1446	0.0043	0.4062	0.0038	0.3549		
57	19.82	-0.05	0.0452	0.0010	0.0238	0.0232	0.5257	1.1545	0.0042	0.4098	0.0037	0.3550		
58	20.16	-0.06	0.0383	0.0012	0.0211	0.0313	0.5499	1.1761	0.0043	0.4132	0.0037	0.3513		
59	20.47	-0.06	0.0339	0.0012	0.0216	0.0369	0.6370	1.1825	0.0051	0.4155	0.0044	0.3514		
60	20.83	-0.06	0.0409	0.0015	0.0220	0.0367	0.5386	1.2034	0.0059	0.4189	0.0049	0.3481		
61	21.14	-0.03	0.0494	0.0008	0.0261	0.0172	0.5275	1.1812	0.0128	0.4086	0.0108	0.3459		
62	21.47	-0.07	0.0378	0.0015	0.0236	0.0410	0.6242	1.1887	0.0143	0.4094	0.0120	0.3444		
63	21.78	-0.07	0.0451	0.0010	0.0248	0.0233	0.5505	1.1866	0.0172	0.4048	0.0145	0.3411		
64	22.09	-0.07	0.0439	0.0010	0.0244	0.0228	0.5564	1.1914	0.0183	0.4043	0.0154	0.3393		
65	22.41	-0.07	0.0558	0.0015	0.0300	0.0278	0.5375	1.1842	0.0195	0.4011	0.0165	0.3387		
66	22.72	-0.05	0.0423	0.0010	0.0249	0.0248	0.5885	1.1716	0.0208	0.3922	0.0177	0.3347		
67	23.05	-0.06	0.0421	0.0018	0.0235	0.0427	0.5589	1.1952	0.0208	0.3963	0.0174	0.3315		
68	23.35	-0.05	0.0462	0.0016	0.0263	0.0357	0.5691	1.1876	0.0213	0.3939	0.0179	0.3317		
69	23.67	-0.04	0.0571	0.0017	0.0314	0.0298	0.5504	1.2015	0.0209	0.3997	0.0174	0.3326		
70	24.02	-0.09	0.0507	0.0011	0.0273	0.0227	0.5383	1.1776	0.0200	0.3876	0.0170	0.3291		
71	24.30	-0.08	0.0502	0.0010	0.0306	0.0209	0.6101	1.1902	0.0200	0.3862	0.0168	0.3245		
72	24.65	-0.05	0.0556	0.0017	0.0300	0.0306	0.5400	1.1948	0.0177	0.3872	0.0148	0.3241		
73	24.95	-0.09	0.0512	0.0015	0.0294	0.0303	0.5734	1.2077	0.0169	0.3943	0.0140	0.3265		
74	25.28	-0.07	0.0552	0.0014	0.0313	0.0254	0.5669	1.1882	0.0152	0.3891	0.0128	0.3275		
75	25.58	-0.08	0.0510	0.0016	0.0303	0.0314	0.5940	1.2117	0.0148	0.3927	0.0122	0.3241		
76	25.87	-0.07	0.0478	0.0022	0.0286	0.0471	0.5989	1.1819	0.0145	0.3875	0.0123	0.3279		
77	26.17	-0.07	0.0437	0.0020	0.0287	0.0458	0.6559	1.1641	0.0139	0.3839	0.0119	0.3298		
78	26.48	-0.08	0.0559	0.0017	0.0361	0.0304	0.6463	1.1266	0.0139	0.3632	0.0124	0.3224		
79	26.79	-0.07	0.0494	0.0020	0.0307	0.0405	0.6207	1.1104	0.0141	0.3603	0.0127	0.3245		
80	27.10	-0.07	0.0453	0.0020	0.0294	0.0441	0.6489	1.1290	0.0137	0.3625	0.0122	0.3211		
81	27.43	-0.05	0.0289	0.0013	0.0270	0.0467	0.9353	1.1243	0.0138	0.3595	0.0123	0.3198		
82	27.72	-0.08	0.0360	0.0015	0.0265	0.0430	0.7360	1.1224	0.0138	0.3599	0.0123	0.3207		
83	28.05	-0.07	0.0467	0.0018	0.0317	0.0385	0.6780	1.1374	0.0132	0.3637	0.0116	0.3198		
84	28.35	-0.07	0.0481	0.0018	0.0313	0.0385	0.6513	1.1293	0.0123	0.3568	0.0109	0.3159		
85	28.66	-0.07	0.0453	0.0018	0.0312	0.0397	0.6886	1.1535	0.0125	0.3711	0.0108	0.3217		
86	28.97	-0.09	0.0491	0.0024	0.0322	0.0489	0.6550	1.1291	0.0122	0.3607	0.0108	0.3195		
87	29.29	-0.09	0.0467	0.0019	0.0315	0.0407	0.6737	1.1325	0.0118	0.3617	0.0105	0.3194		
88	29.60	-0.07	0.0455	0.0015	0.0312	0.0441	0.6849	1.1482	0.0112	0.3684	0.0098	0.3208		

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION
6	16	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PLINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.69	-0.04	-0.4549	1.1858	0.1039	-0.0015	0.0110	0.3634	-2.6066	
2	-2.38	0.03	-0.4148	1.1507	-0.0289	0.1234	0.0150	0.3555	-2.7738	
3	-1.86	0.05	-0.1388	0.8572	-0.0318	0.0105	0.0150	0.3639	-2.5305	
4	-1.25	0.05	-0.2426	0.6806	0.0243	0.0770	0.0220	0.3600	-2.8056	
5	-0.68	0.05	-0.1353	0.4264	0.0655	-0.0403	0.0150	0.3627	-3.1517	
6	-0.13	0.02	-0.0370	0.1518	0.0436	-0.1373	0.0170	0.3654	-4.1027	
7	0.37	0.03	0.0469	-0.0307	0.0381	-0.0553	0.0180	0.3614	-0.6537	
8	0.87	0.04	0.0958	-0.1411	-0.0535	0.0899	0.0170	0.3572	-1.4731	
9	1.37	0.03	0.2340	-0.4435	0.0271	0.0071	0.0220	0.3620	-1.8957	
10	1.86	0.03	0.3151	-0.6531	0.0400	0.0160	0.0200	0.3575	-2.0728	
11	2.35	0.03	0.3749	-0.8897	-0.0622	0.0471	0.0160	0.3638	-2.3736	
12	2.81	-0.02	0.4572	-1.0751	0.0378	0.0151	0.0170	0.3653	-2.3512	
13	3.28	0.02	0.5208	-1.2421	0.0728	-0.2974	0.0240	0.3649	-2.3848	
14	3.76	0.08	0.6529	-1.5064	0.0521	-0.0569	0.0170	0.3597	-2.3087	
15	4.20	0.02	0.7355	-1.7326	0.0770	-0.0348	0.0140	0.3664	-2.3557	
16	4.65	0.08	0.7786	-1.9209	0.2613	-0.0338	0.0180	0.3549	-2.4672	
17	5.11	0.05	0.8695	-2.0952	-0.0182	-0.0415	0.0230	0.3621	-2.4097	
18	5.56	0.10	0.9574	-2.3362	0.1663	0.0222	0.0200	0.3659	-2.4402	
19	6.00	0.05	1.0588	-2.4911	0.1013	0.1012	0.0160	0.3657	-2.3529	
20	6.43	0.06	1.0645	-2.5641	0.1130	0.0468	0.0140	0.3617	-2.4088	
21	6.90	-0.04	1.1517	-2.7863	-0.0351	0.0531	0.0200	0.3648	-2.4192	
22	7.33	0.02	1.2395	-3.0182	0.0505	0.0433	0.0150	0.3774	-2.4349	
23	7.78	0.01	1.3618	-3.2954	0.0237	-0.0022	0.0130	0.3779	-2.4198	
24	8.21	-0.07	1.4176	-3.4115	0.0118	0.0205	0.0170	0.3786	-2.4065	
25	8.64	-0.03	1.5128	-3.5987	0.1415	-0.1556	0.0170	0.3772	-2.3788	
26	9.04	0.06	1.5633	-3.7004	0.1048	-0.0527	0.0220	0.3575	-2.3671	
27	9.45	0.04	1.6529	-3.8868	-0.0726	0.2056	0.0170	0.3615	-2.3515	
28	9.86	-0.02	1.7361	-4.0363	0.1435	0.0681	0.0150	0.3487	-2.3250	
29	10.27	0.10	1.8583	-4.2733	0.2627	0.0242	0.0140	0.3554	-2.2996	
30	10.65	-0.02	1.8219	-4.3164	-0.0698	0.2117	0.0160	0.3528	-2.3692	
31	11.03	0.0	1.9500	-4.5258	-0.0534	0.0937	0.0130	0.3627	-2.3209	
32	11.42	0.07	2.0385	-4.6517	0.0264	0.2670	0.0140	0.3528	-2.2819	
33	11.76	0.02	2.0844	-4.7260	-0.1109	0.2602	0.0090	0.3517	-2.2673	
34	12.14	0.0	2.1890	-4.9744	-0.0623	0.1862	0.0140	0.3629	-2.2724	
35	12.51	-0.02	2.2612	-5.0774	-0.0415	0.2231	0.0110	0.3549	-2.2455	
36	12.87	-0.02	2.3408	-5.2309	0.0563	0.1022	0.0070	0.3603	-2.2346	
37	13.20	-0.09	2.4478	-5.3946	-0.0605	0.0157	0.0080	0.3542	-2.2039	
38	13.59	-0.02	2.4910	-5.4461	0.0282	0.3405	0.0130	0.3478	-2.1863	
39	13.96	-0.01	2.5792	-5.5636	-0.0972	0.2340	0.0070	0.3439	-2.1571	
40	14.31	0.0	2.5936	-5.6687	-0.0856	0.2008	0.0080	0.3371	-2.1857	
41	14.63	-0.02	2.7116	-5.7910	-0.1534	0.0518	0.0040	0.3348	-2.1356	
42	14.99	-0.02	2.7997	-5.8814	0.0007	0.1410	0.0	0.3416	-2.1007	
43	15.36	-0.05	2.8514	-5.9237	0.0142	0.4171	-0.0040	0.3301	-2.0775	
44	15.69	-0.06	2.8971	-6.1107	-0.1606	0.3448	0.0020	0.3285	-2.1092	
45	16.04	0.01	3.0126	-6.2094	-0.0464	0.2739	-0.0050	0.3280	-2.0611	
46	16.36	-0.02	3.0794	-6.2769	-0.0802	0.3192	-0.0130	0.3236	-2.0384	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	16	1.01	1.7	0.0	B2W012	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.70	0.01	3.1878	-6.3936	-0.0608	0.3511	-0.0140	0.3241	-2.0057	
48	17.01	0.01	3.2521	-6.4437	0.0029	0.2819	-0.0060	0.3213	-1.9814	
49	17.35	0.0	3.3206	-6.4985	0.0196	0.3445	-0.0180	0.3216	-1.9571	
50	17.67	-0.04	3.4066	-6.5259	-0.0841	0.4697	-0.0090	0.3308	-1.9451	
51	18.02	-0.04	3.5062	-6.7025	-0.0409	0.1712	-0.0190	0.3228	-1.9116	
52	18.33	-0.02	3.5277	-6.7976	-0.1475	0.3834	-0.0190	0.3187	-1.9269	
53	18.70	-0.03	3.6315	-6.7569	0.0380	0.3118	-0.0190	0.3147	-1.8606	
54	19.00	-0.04	3.6918	-6.9073	-0.0198	0.2357	-0.0220	0.3184	-1.8710	
55	19.35	-0.02	3.8257	-6.9988	0.0858	0.2888	-0.0220	0.3128	-1.8294	
56	19.67	-0.07	3.8512	-7.0815	-0.1543	0.4970	-0.0190	0.3075	-1.8388	
57	20.03	-0.06	4.0028	-7.1667	-0.0990	0.4925	-0.0310	0.2990	-1.7904	
58	20.35	-0.03	4.0666	-7.1990	-0.0397	0.2136	-0.0310	0.2910	-1.7703	
59	20.71	-0.02	4.1500	-7.2887	0.0347	0.3954	-0.0330	0.2951	-1.7563	
60	21.05	-0.02	4.2978	-7.2748	0.0025	0.3874	-0.0380	0.2842	-1.6936	
61	21.36	-0.09	4.3660	-7.3813	0.0321	-0.0399	-0.0220	0.2706	-1.6906	
62	21.69	-0.06	4.4835	-7.3908	0.1638	0.1377	-0.0230	0.2743	-1.6484	
63	21.97	-0.07	4.5504	-7.4374	-0.0536	0.0900	-0.0200	0.2692	-1.6345	
64	22.30	-0.06	4.6803	-7.4783	-0.0784	0.2147	-0.0260	0.2594	-1.5978	
65	22.67	-0.05	4.7643	-7.4949	0.1029	0.1629	-0.0170	0.2665	-1.5731	
66	22.99	-0.10	4.8438	-7.4792	-0.0485	-0.0471	-0.0080	0.2740	-1.5441	
67	23.27	-0.05	4.9272	-7.5229	-0.0847	0.5505	-0.0470	0.2640	-1.5268	
68	23.61	-0.03	5.0060	-7.5924	0.1542	0.1331	-0.0220	0.2452	-1.5166	
69	23.94	-0.04	5.1608	-7.7031	-0.0322	0.7460	-0.0510	0.2328	-1.4926	
70	24.28	-0.08	5.2420	-7.6658	-0.0667	0.0864	-0.0140	0.2343	-1.4624	
71	24.60	-0.07	5.3658	-7.6591	0.0735	0.1381	-0.0210	0.2279	-1.4474	
72	24.91	-0.07	5.4033	-7.6746	0.0022	0.2409	-0.0170	0.2312	-1.4204	
73	25.24	-0.10	5.5700	-7.7570	0.0418	-0.3825	0.0330	0.2259	-1.3926	
74	25.50	-0.07	5.6177	-7.7637	0.0754	-0.1295	-0.0030	0.2231	-1.3820	
75	25.83	-0.06	5.7768	-7.7356	-0.0647	0.4505	-0.0360	0.2133	-1.3391	
76	26.14	-0.04	5.7502	-7.6854	0.1695	0.0571	-0.0110	0.2200	-1.3305	
77	26.41	-0.05	5.9499	-7.6960	-0.0772	0.5350	-0.0460	0.2176	-1.2935	
78	26.70	-0.06	6.0447	-7.7947	0.0352	0.1467	-0.0050	0.2124	-1.2895	
79	27.07	-0.05	6.1903	-7.7795	-0.0606	0.5208	-0.0160	0.1953	-1.2507	
80	27.38	-0.05	6.2238	-7.8664	0.0716	0.2147	-0.0150	0.1845	-1.2639	
81	27.67	-0.05	6.2820	-7.9669	0.0343	0.2260	-0.0080	0.1648	-1.2682	
82	27.99	-0.06	6.4724	-8.0024	-0.0487	0.5391	-0.0240	0.1502	-1.2364	
83	28.28	-0.08	6.5350	-7.9822	0.0287	-0.0802	0.0320	0.1473	-1.2214	
84	28.58	-0.02	6.5552	-8.0655	0.1177	0.5531	-0.0190	0.1458	-1.2304	
85	28.94	-0.14	6.9074	-7.9656	-0.3197	-0.1664	0.0250	0.1135	-1.1532	
86	29.18	-0.02	6.6843	-8.0302	0.1169	0.4443	0.0030	0.1237	-1.2014	
87	29.50	-0.04	6.7708	-8.0633	0.2480	0.0098	0.0050	0.1148	-1.1909	
88	29.84	0.02	7.0838	-8.0815	0.5460	-0.0195	0.0	0.1037	-1.1408	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			16	1.01	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CHI	XC PF1	YCPF1	CNF2	CH2	CB2	XC PF2	YCPF2
1	-2.69	-0.04	-0.0172	0.0006	0.0028	-0.0349	-0.1610	-0.1512	0.0025	-0.0709	-0.0165	0.4688
2	-2.38	0.03	-0.0207	0.0004	0.0005	-0.0217	-0.0243	-0.1481	0.0030	-0.0689	-0.0206	0.4656
3	-1.86	0.05	-0.0162	0.0004	0.0018	-0.0247	-0.1112	-0.1079	0.0018	-0.0523	-0.0167	0.4852
4	-1.25	0.05	-0.0118	0.0003	0.0044	-0.0297	-0.3702	-0.0891	0.0017	-0.0443	-0.0191	0.4971
5	-0.68	0.05	-0.0136	0.0006	0.0025	-0.0441	-0.1815	-0.0405	0.0003	-0.0229	-0.0074	0.5653
6	-0.13	0.02	-0.0133	0.0001	0.0038	-0.0113	-0.2833	-0.0054	-0.0003	-0.0075	0.0648	1.3888
7	0.37	0.03	-0.0112	0.0001	0.0056	-0.0089	-0.4971	0.0196	-0.0007	0.0052	-0.0357	0.2669
8	0.87	0.04	-0.0177	0.0003	0.0030	-0.0169	-0.1696	0.0446	-0.0013	0.0132	-0.0303	0.2951
9	1.37	0.03	-0.0089	0.0002	0.0065	-0.0225	-0.7791	0.0830	-0.0020	0.0322	-0.0247	0.3674
10	1.86	0.03	-0.0186	-0.0001	0.0044	0.0081	-0.2367	0.1098	-0.0028	0.0433	-0.0255	0.3942
11	2.35	0.03	-0.0142	0.0000	0.0088	-0.0035	-0.6175	0.1477	-0.0033	0.0597	-0.0223	0.4043
12	2.81	-0.02	-0.0134	-0.0003	0.0073	0.0224	-0.5474	0.1654	-0.0036	0.0678	-0.0206	0.4100
13	3.28	0.02	0.0009	-0.0006	0.0112	-0.7221	12.4443	0.1947	-0.0038	0.0789	-0.0198	0.4051
14	3.76	0.08	-0.0166	-0.0001	0.0076	0.0000	-0.4559	0.2375	-0.0038	0.0947	-0.0162	0.3969
15	4.20	0.02	-0.0242	0.0000	0.0046	-0.0021	-0.1916	0.2636	-0.0043	0.1048	-0.0165	0.3977
16	4.65	0.08	-0.0108	-0.0013	0.0116	0.1203	-1.0742	0.2883	-0.0043	0.1143	-0.0151	0.3963
17	5.11	0.05	-0.0227	-0.0004	0.0049	0.0198	-0.2174	0.3100	-0.0040	0.1211	-0.0131	0.3906
18	5.56	0.10	-0.0185	-0.0013	0.0074	0.0703	-0.4019	0.3422	-0.0038	0.1356	-0.0112	0.3963
19	6.00	0.05	-0.0198	-0.0009	0.0047	0.0454	-0.2375	0.3637	-0.0040	0.1440	-0.0111	0.3959
20	6.43	0.06	-0.0197	-0.0004	-0.0006	0.0228	0.0286	0.3818	-0.0039	0.1505	-0.0102	0.3942
21	6.90	-0.04	-0.0222	-0.0011	0.0014	0.0495	-0.0857	0.4157	-0.0041	0.1639	-0.0099	0.3943
22	7.33	0.02	-0.0206	-0.0003	-0.0005	0.0146	0.0225	0.4435	-0.0041	0.1716	-0.0094	0.3869
23	7.78	0.01	-0.0164	-0.0023	0.0059	0.1433	-0.3619	0.4753	-0.0049	0.1842	-0.0103	0.3875
24	8.21	-0.07	-0.0201	-0.0019	0.0026	0.0970	-0.1295	0.4903	-0.0042	0.1878	-0.0087	0.3830
25	8.64	-0.03	-0.0215	-0.0028	0.0029	0.1325	-0.1366	0.5143	-0.0050	0.1968	-0.0097	0.3826
26	9.04	0.06	-0.0206	-0.0037	0.0040	0.1796	-0.1759	0.5280	-0.0043	0.2007	-0.0082	0.3802
27	9.45	0.04	-0.0305	-0.0026	0.0008	0.0869	-0.0274	0.5352	-0.0047	0.2148	-0.0084	0.3801
28	9.86	-0.02	-0.0326	-0.0031	0.0020	0.0566	-0.0625	0.5759	-0.0049	0.2163	-0.0085	0.3756
29	10.27	0.10	-0.0348	-0.0043	0.0039	0.1250	-0.1122	0.6052	-0.0050	0.2233	-0.0083	0.3689
30	10.65	-0.02	-0.0375	-0.0039	0.0019	0.1053	-0.0508	0.6108	-0.0050	0.2258	-0.0083	0.3697
31	11.03	0.0	-0.0385	-0.0040	-0.0006	0.1052	0.0163	0.6374	-0.0048	0.2336	-0.0076	0.3665
32	11.42	0.07	-0.0426	-0.0044	-0.0007	0.1044	0.0163	0.6605	-0.0050	0.2411	-0.0076	0.3650
33	11.76	0.02	-0.0508	-0.0045	-0.0034	0.0896	0.0675	0.6722	-0.0057	0.2446	-0.0085	0.3639
34	12.14	0.0	-0.0515	-0.0050	-0.0035	0.0971	0.0672	0.6992	-0.0052	0.2502	-0.0074	0.3578
35	12.51	-0.02	-0.0560	-0.0048	-0.0040	0.0866	0.0707	0.7263	-0.0050	0.2559	-0.0070	0.3524
36	12.87	-0.02	-0.0627	-0.0056	-0.0072	0.0843	0.1147	0.7397	-0.0045	0.2621	-0.0061	0.3543
37	13.20	-0.09	-0.0558	-0.0050	-0.0071	0.0896	0.1271	0.7669	-0.0050	0.2677	-0.0066	0.3491
38	13.59	-0.02	-0.0644	-0.0065	-0.0061	0.1017	0.0941	0.7731	-0.0048	0.2671	-0.0062	0.3455
39	13.96	-0.01	-0.0668	-0.0054	-0.0109	0.0816	0.1626	0.7999	-0.0053	0.2753	-0.0067	0.3442
40	14.31	0.0	-0.0698	-0.0070	-0.0080	0.1010	0.1140	0.8065	-0.0057	0.2778	-0.0071	0.3445
41	14.63	-0.02	-0.0655	-0.0050	-0.0064	0.0763	0.0981	0.8254	-0.0060	0.2815	-0.0073	0.3410
42	14.99	-0.02	-0.0826	-0.0065	-0.0136	0.0793	0.1649	0.8408	-0.0046	0.2856	-0.0055	0.3396
43	15.36	-0.03	-0.0960	-0.0084	-0.0152	0.0875	0.1582	0.8481	-0.0052	0.2856	-0.0061	0.3368
44	15.69	-0.06	-0.0912	-0.0082	-0.0135	0.0904	0.1479	0.8702	-0.0055	0.2925	-0.0063	0.3361
45	16.04	0.01	-0.0855	-0.0048	-0.0168	0.0567	0.1964	0.8857	-0.0055	0.2986	-0.0062	0.3372
46	16.34	-0.02	-0.0884	-0.0033	-0.0215	0.0373	0.2472	0.8999	-0.0059	0.3023	-0.0066	0.3359

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	16	1.01	1.7	0.0	0.82	WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.70	0.01	-0.0963	-0.0042	-0.0268	0.0441	0.2782	0.9070	-0.0057	0.3034	-0.0063	0.3345
48	17.01	0.01	-0.0868	-0.0037	-0.0209	0.0426	0.2410	0.9248	-0.0062	0.3092	-0.0067	0.3343
49	17.35	0.0	-0.0912	-0.0025	-0.0277	0.0280	0.3036	0.9404	-0.0060	0.3111	-0.0064	0.3308
50	17.67	-0.04	-0.0971	-0.0047	-0.0269	0.0484	0.2766	0.9521	-0.0061	0.3147	-0.0064	0.3305
51	18.02	-0.04	-0.0963	-0.0022	-0.0304	0.0234	0.3156	0.9701	-0.0063	0.3172	-0.0065	0.3265
52	18.34	-0.02	-0.0972	-0.0025	-0.0272	0.0262	0.2797	0.9746	-0.0070	0.3200	-0.0072	0.3283
53	18.70	-0.03	-0.1091	-0.0040	-0.0267	0.0367	0.2452	0.9829	-0.0072	0.3220	-0.0074	0.3276
54	19.00	-0.04	-0.0875	-0.0004	-0.0309	0.0051	0.3526	1.0017	-0.0071	0.3272	-0.0071	0.3266
55	19.35	-0.02	-0.1054	-0.0023	-0.0343	0.0218	0.3256	1.0183	-0.0070	0.3307	-0.0069	0.3248
56	19.67	-0.07	-0.1149	-0.0017	-0.0376	0.0152	0.3271	1.0173	-0.0077	0.3300	-0.0076	0.3244
57	20.03	-0.06	-0.1037	0.0026	-0.0384	-0.0263	0.3819	1.0385	-0.0086	0.3360	-0.0083	0.3236
58	20.35	-0.03	-0.0908	0.0056	-0.0412	-0.0622	0.4544	1.0464	-0.0092	0.3391	-0.0088	0.3240
59	20.71	-0.02	-0.0991	0.0042	-0.0413	-0.0424	0.4170	1.0587	-0.0088	0.3417	-0.0083	0.3227
60	21.05	-0.02	-0.1180	0.0064	-0.0518	-0.0547	0.4391	1.0637	-0.0095	0.3422	-0.0089	0.3217
61	21.36	-0.09	-0.0641	0.0074	-0.0336	-0.1154	0.5235	1.0789	-0.0101	0.3477	-0.0094	0.3223
62	21.69	-0.06	-0.0717	0.0069	-0.0367	-0.0962	0.5117	1.0925	-0.0102	0.3493	-0.0093	0.3198
63	21.97	-0.07	-0.0653	0.0067	-0.0321	-0.1034	0.4909	1.0959	-0.0108	0.3514	-0.0099	0.3206
64	22.30	-0.06	-0.0690	0.0059	-0.0315	-0.0862	0.4564	1.1092	-0.0108	0.3529	-0.0097	0.3182
65	22.67	-0.05	-0.0384	0.0051	-0.0197	-0.1341	0.5129	1.1160	-0.0116	0.3574	-0.0104	0.3202
66	22.99	-0.10	-0.0619	0.0047	-0.0274	-0.0767	0.4431	1.1221	-0.0104	0.3567	-0.0093	0.3179
67	23.27	-0.05	-0.1309	0.0082	-0.0596	-0.0626	0.4554	1.1158	-0.0109	0.3561	-0.0098	0.3191
68	23.61	-0.03	-0.0795	0.0051	-0.0347	-0.0641	0.4364	1.1338	-0.0111	0.3592	-0.0098	0.3168
69	23.94	-0.04	-0.0819	0.0022	-0.0237	-0.0275	0.2893	1.1540	-0.0109	0.3635	-0.0094	0.3150
70	24.28	-0.08	-0.0373	0.0022	-0.0085	-0.0603	0.2287	1.1589	-0.0120	0.3653	-0.0104	0.3152
71	24.60	-0.07	-0.0918	0.0064	-0.0438	-0.0702	0.4770	1.1627	-0.0116	0.3643	-0.0100	0.3134
72	24.91	-0.07	-0.0744	0.0042	-0.0309	-0.0564	0.4152	1.1698	-0.0111	0.3657	-0.0095	0.3126
73	25.24	-0.10	0.0235	-0.0049	0.0237	-0.0404	1.0098	1.1915	-0.0140	0.3736	-0.0117	0.3136
74	25.50	-0.07	-0.0356	0.0015	-0.0122	-0.0421	0.3416	1.1915	-0.0123	0.3718	-0.0103	0.3121
75	25.83	-0.06	-0.0727	0.0002	-0.0085	-0.0034	0.1173	1.1998	-0.0127	0.3742	-0.0106	0.3119
76	26.14	-0.04	-0.0657	0.0022	-0.0205	-0.0335	0.3119	1.2034	-0.0130	0.3755	-0.0108	0.3120
77	26.41	-0.05	-0.0847	0.0020	-0.0236	-0.0242	0.2789	1.2082	-0.0135	0.3768	-0.0112	0.3119
78	26.70	-0.06	-0.0814	-0.0001	-0.0204	0.0018	0.2509	1.2141	-0.0136	0.3783	-0.0112	0.3116
79	27.07	-0.05	-0.1201	0.0014	-0.0427	-0.0121	0.3557	1.2307	-0.0129	0.3821	-0.0105	0.3105
80	27.38	-0.05	-0.1004	0.0017	-0.0361	-0.0169	0.3601	1.2355	-0.0133	0.3830	-0.0108	0.3100
81	27.67	-0.05	-0.0237	-0.0011	0.0121	0.0464	-0.5107	1.2536	-0.0110	0.3876	-0.0088	0.3092
82	27.99	-0.06	-0.0838	-0.0018	-0.0143	0.0221	0.1709	1.2573	-0.0106	0.3882	-0.0085	0.3088
83	28.28	-0.08	-0.0581	-0.0037	-0.0051	0.0645	0.0871	1.2581	-0.0104	0.3884	-0.0083	0.3087
84	28.58	-0.02	-0.0950	-0.0016	-0.0194	0.0168	0.2037	1.2685	-0.0096	0.3915	-0.0076	0.3086
85	28.94	-0.14	-0.0544	-0.0024	-0.0006	0.0450	0.0115	1.2793	-0.0103	0.3938	-0.0081	0.3078
86	29.18	-0.02	-0.0367	-0.0036	0.0071	0.0981	-0.1927	1.2884	-0.0098	0.3940	-0.0076	0.3058
87	29.50	-0.04	-0.0354	-0.0018	0.0083	0.0523	-0.2346	1.2962	-0.0105	0.3966	-0.0081	0.3060
88	29.84	0.02	-0.0274	-0.0015	0.0141	0.0566	-0.5135	1.3168	-0.0107	0.4029	-0.0081	0.3060

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 16 1.01 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED												
PLINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
1	-2.69	-0.04	-0.0098	0.0014	0.0011	-0.1479	-0.1158	-0.2141	0.0034	-0.0591	-0.0161	0.2762
2	-2.38	0.03	-0.0171	0.0015	-0.0015	-0.0877	0.0876	-0.1993	0.0033	-0.0541	-0.0168	0.2715
3	-1.86	0.05	-0.0110	0.0014	0.0010	-0.1273	-0.0941	-0.1615	0.0026	-0.0409	-0.0164	0.2533
4	-1.25	0.05	-0.0086	0.0014	0.0024	-0.1628	-0.2831	-0.1305	0.0015	-0.0269	-0.0119	0.2060
5	-0.68	0.05	-0.0148	0.0015	0.0012	-0.1047	-0.0789	-0.0942	0.0007	-0.0091	-0.0080	0.0965
6	-0.13	0.02	-0.0111	0.0015	0.0015	-0.1351	-0.1353	-0.0500	0.0003	0.0065	-0.0060	-0.1308
7	0.37	0.03	-0.0073	0.0012	0.0030	-0.1712	-0.4065	-0.0229	0.0001	0.0176	-0.0044	-0.7672
8	0.87	0.04	-0.0235	0.0017	-0.0014	-0.0745	0.0609	-0.0070	-0.0002	0.0247	0.0357	-3.5239
9	1.37	0.03	-0.0162	0.0016	0.0016	-0.1018	-0.0989	0.0419	-0.0011	0.0451	-0.0262	1.0755
10	1.86	0.03	-0.0161	0.0016	0.0007	-0.1025	-0.0457	0.0753	-0.0013	0.0574	-0.0173	0.7622
11	2.35	0.03	-0.0039	0.0016	0.0032	-0.4230	-0.8206	0.1072	-0.0017	0.0706	-0.0163	0.6588
12	2.81	-0.02	-0.0028	0.0013	0.0061	-0.4821	-2.1668	0.1380	-0.0021	0.0838	-0.0152	0.6071
13	3.28	0.02	0.0018	0.0018	0.0069	0.4998	3.8332	0.1684	-0.0027	0.0950	-0.0163	0.5642
14	3.76	0.08	0.0019	0.0017	0.0068	0.8546	3.5964	0.2057	-0.0027	0.1107	-0.0134	0.5384
15	4.20	0.02	-0.0026	0.0012	0.0048	-0.4807	-1.8591	0.2316	-0.0030	0.1226	-0.0132	0.5292
16	4.65	0.08	0.0055	0.0016	0.0085	0.2909	1.5514	0.2604	-0.0029	0.1329	-0.0111	0.5106
17	5.11	0.05	-0.0087	0.0015	0.0025	-0.1724	-0.2875	0.2776	-0.0030	0.1406	-0.0110	0.5064
18	5.56	0.10	0.0012	0.0011	0.0026	0.9185	4.6685	0.3152	-0.0028	0.1553	-0.0089	0.4927
19	6.00	0.05	0.0116	0.0017	0.0090	0.1465	0.7729	0.3472	-0.0030	0.1664	-0.0088	0.4792
20	6.43	0.06	-0.0086	0.0013	0.0024	-0.1569	-0.2831	0.3609	-0.0031	0.1697	-0.0087	0.4701
21	6.90	-0.04	-0.0017	0.0019	0.0044	-1.1174	-2.6080	0.4010	-0.0028	0.1843	-0.0071	0.4596
22	7.33	0.02	0.0011	0.0012	0.0057	1.0907	5.1514	0.4179	-0.0033	0.1914	-0.0079	0.4581
23	7.78	0.01	0.0090	0.0018	0.0091	0.2000	1.0110	0.4540	-0.0033	0.2044	-0.0073	0.4501
24	8.21	-0.07	0.0090	0.0013	0.0112	0.1500	1.2443	0.4796	-0.0038	0.2130	-0.0079	0.4441
25	8.64	-0.03	0.0139	0.0015	0.0110	0.1115	0.7936	0.5009	-0.0036	0.2205	-0.0072	0.4402
26	9.04	0.06	0.0065	0.0019	0.0085	0.2923	1.3024	0.5179	-0.0040	0.2266	-0.0077	0.4375
27	9.45	0.04	0.0036	0.0012	0.0054	0.3472	1.4999	0.5546	-0.0040	0.2379	-0.0073	0.4289
28	9.86	-0.02	0.0211	0.0015	0.0133	0.0734	0.6318	0.5704	-0.0043	0.2446	-0.0076	0.4287
29	10.27	0.10	0.0244	0.0021	0.0144	0.0881	0.5914	0.6049	-0.0047	0.2553	-0.0078	0.4221
30	10.65	-0.02	0.0126	0.0018	0.0102	0.1428	0.8094	0.6070	-0.0050	0.2558	-0.0083	0.4215
31	11.03	0.0	0.0090	0.0014	0.0112	0.1611	1.2443	0.6342	-0.0052	0.2641	-0.0083	0.4165
32	11.42	0.07	-0.0051	0.0013	0.0046	-0.2647	-0.9021	0.6514	-0.0055	0.2697	-0.0084	0.4141
33	11.76	0.02	0.0176	0.0012	0.0125	0.0710	0.7309	0.6747	-0.0058	0.2765	-0.0086	0.4098
34	12.14	0.0	0.0091	0.0015	0.0103	0.1648	1.1354	0.6943	-0.0060	0.2842	-0.0086	0.4094
35	12.51	-0.02	0.0128	0.0013	0.0106	0.1054	0.8410	0.7252	-0.0063	0.2907	-0.0088	0.4009
36	12.87	-0.02	0.0161	0.0016	0.0134	0.1625	0.8301	0.7452	-0.0061	0.2970	-0.0083	0.3986
37	13.20	-0.09	0.0123	0.0017	0.0130	0.1423	1.0568	0.7611	-0.0063	0.3028	-0.0083	0.3978
38	13.59	-0.02	0.0066	0.0014	0.0106	0.2121	1.6059	0.7767	-0.0069	0.3072	-0.0089	0.3955
39	13.96	-0.01	0.0163	0.0015	0.0125	0.0920	0.7688	0.8003	-0.0070	0.3116	-0.0088	0.3894
40	14.31	0.0	0.0199	0.0013	0.0143	0.0678	0.7201	0.8133	-0.0072	0.3170	-0.0089	0.3898
41	14.63	-0.02	0.0166	0.0009	0.0131	0.0542	0.7910	0.8255	-0.0074	0.3204	-0.0090	0.3881
42	14.99	-0.02	0.0246	0.0014	0.0164	0.0569	0.6665	0.8516	-0.0067	0.3268	-0.0079	0.3837
43	15.36	-0.05	0.0295	0.0013	0.0175	0.0458	0.6078	0.8630	-0.0074	0.3304	-0.0086	0.3828
44	15.69	-0.06	0.0198	0.0013	0.0152	0.0682	0.7676	0.8844	-0.0073	0.3356	-0.0083	0.3795
45	16.04	0.01	0.0136	0.0013	0.0154	0.0992	1.1347	0.8899	-0.0074	0.3380	-0.0083	0.3798
46	16.34	-0.02	0.0292	0.0018	0.0182	0.0616	0.6243	0.9075	-0.0073	0.3405	-0.0081	0.3752

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	16	1.01	1.7	0.0	82WOF12	0.0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.70	0.01	0.0279	0.0016	0.0199	0.0573	0.7131	0.9210	-0.0075	0.3452	-0.0082	0.3748
48	17.01	0.01	0.0185	0.0015	0.0150	0.0811	0.8089	0.9339	-0.0074	0.3466	-0.0080	0.3711
49	17.35	0.0	0.0257	0.0013	0.0185	0.0506	0.7184	0.9431	-0.0080	0.3511	-0.0085	0.3722
50	17.67	-0.04	0.0253	0.0021	0.0184	0.0830	0.7285	0.9697	-0.0077	0.3586	-0.0079	0.3698
51	18.02	-0.04	0.0228	0.0017	0.0196	0.0767	0.8595	0.9763	-0.0084	0.3599	-0.0087	0.3686
52	18.33	-0.02	0.0277	0.0018	0.0199	0.0668	0.7195	0.9828	-0.0083	0.3615	-0.0084	0.3678
53	18.70	-0.03	0.0361	0.0020	0.0225	0.0554	0.6241	1.0041	-0.0082	0.3654	-0.0082	0.3639
54	19.00	-0.04	0.0365	0.0012	0.0226	0.0342	0.6181	1.0130	-0.0080	0.3671	-0.0079	0.3624
55	19.35	-0.02	0.0195	0.0016	0.0165	0.0820	0.8460	1.0273	-0.0086	0.3718	-0.0084	0.3619
56	19.67	-0.07	0.0285	0.0025	0.0202	0.0895	0.7087	1.0355	-0.0090	0.3753	-0.0087	0.3625
57	20.03	-0.06	0.0327	0.0015	0.0221	0.0459	0.6757	1.0493	-0.0090	0.3777	-0.0086	0.3600
58	20.35	-0.03	0.0372	0.0015	0.0266	0.0403	0.7149	1.0593	-0.0088	0.3794	-0.0083	0.3596
59	20.71	-0.02	0.0301	0.0016	0.0222	0.0531	0.7385	1.0668	-0.0090	0.3835	-0.0085	0.3595
60	21.05	-0.02	0.0329	0.0009	0.0237	0.0274	0.7192	1.0810	-0.0098	0.3868	-0.0091	0.3578
61	21.36	-0.09	0.0411	0.0013	0.0264	0.0328	0.6422	1.0835	-0.0086	0.3866	-0.0079	0.3568
62	21.69	-0.06	0.0376	0.0010	0.0257	0.0266	0.6843	1.1001	-0.0086	0.3891	-0.0079	0.3537
63	21.97	-0.07	0.0365	0.0003	0.0276	0.0096	0.7551	1.1020	-0.0091	0.3918	-0.0083	0.3555
64	22.30	-0.06	0.0451	0.0005	0.0287	0.0111	0.6370	1.1150	-0.0086	0.3957	-0.0077	0.3549
65	22.67	-0.05	0.0388	0.0007	0.0273	0.0193	0.7043	1.1158	-0.0091	0.3945	-0.0082	0.3536
66	22.99	-0.10	0.0366	0.0005	0.0261	0.0150	0.7130	1.1262	-0.0092	0.3970	-0.0082	0.3519
67	23.27	-0.05	0.0364	0.0007	0.0267	0.0206	0.7343	1.1440	-0.0103	0.4029	-0.0090	0.3522
68	23.61	-0.03	0.0399	0.0008	0.0281	0.0200	0.7041	1.1488	-0.0094	0.4016	-0.0082	0.3496
69	23.94	-0.04	0.0400	0.0008	0.0271	0.0212	0.6782	1.1595	-0.0087	0.4062	-0.0075	0.3503
70	24.28	-0.08	0.0448	0.0010	0.0288	0.0223	0.6435	1.1555	-0.0090	0.4044	-0.0078	0.3500
71	24.60	-0.07	0.0439	0.0004	0.0285	0.0091	0.6590	1.1757	-0.0099	0.4090	-0.0085	0.3478
72	24.91	-0.07	0.0301	0.0012	0.0252	0.0399	0.8382	1.1752	-0.0093	0.4072	-0.0079	0.3465
73	25.24	-0.10	0.0487	0.0022	0.0318	0.0452	0.6535	1.1834	-0.0089	0.4096	-0.0076	0.3461
74	25.50	-0.07	0.0529	0.0013	0.0326	0.0255	0.6168	1.1994	-0.0091	0.4135	-0.0076	0.3448
75	25.83	-0.06	0.0396	0.0011	0.0303	0.0278	0.7650	1.2027	-0.0094	0.4180	-0.0078	0.3476
76	26.14	-0.04	0.0360	0.0014	0.0266	0.0389	0.7443	1.2117	-0.0104	0.4170	-0.0086	0.3442
77	26.41	-0.05	0.0541	0.0011	0.0346	0.0203	0.6401	1.2280	-0.0103	0.4225	-0.0084	0.3440
78	26.70	-0.06	0.0480	0.0011	0.0328	0.0229	0.6632	1.2424	-0.0109	0.4260	-0.0088	0.3429
79	27.07	-0.05	0.0318	0.0005	0.0245	0.0173	0.7703	1.2555	-0.0115	0.4289	-0.0092	0.3417
80	27.38	-0.05	0.0517	0.0011	0.0332	0.0222	0.6427	1.2666	-0.0104	0.4320	-0.0082	0.3411
81	27.67	-0.05	0.0480	0.0014	0.0313	0.0302	0.6520	1.2580	-0.0074	0.4301	-0.0059	0.3419
82	27.99	-0.06	0.0518	0.0015	0.0318	0.0290	0.6131	1.2857	-0.0073	0.4367	-0.0057	0.3397
83	28.28	-0.08	0.0452	0.0018	0.0308	0.0376	0.6259	1.2967	-0.0072	0.4381	-0.0056	0.3378
84	28.58	-0.02	0.0402	0.0009	0.0273	0.0224	0.6790	1.2948	-0.0077	0.4387	-0.0059	0.3389
85	28.94	-0.14	0.0551	0.0023	0.0338	0.0417	0.6127	1.3126	-0.0060	0.4420	-0.0046	0.3367
86	29.18	-0.02	0.0463	0.0012	0.0296	0.0270	0.6399	1.3057	-0.0069	0.4416	-0.0053	0.3382
87	29.50	-0.04	0.0530	0.0023	0.0320	0.0434	0.6030	1.3112	-0.0072	0.4397	-0.0055	0.3353
88	29.84	0.02	0.0593	0.0024	0.0336	0.0413	0.5659	1.3362	-0.0062	0.4486	-0.0047	0.3358

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	17	1.05	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.74	-0.04	-0.4400	1.2140	-0.0490	-0.0414	0.0200	0.3323	-2.7588	
2	-2.39	-0.01	-0.3857	1.0300	-0.0250	-0.0540	0.0180	0.3287	-2.6701	
3	-1.78	0.04	-0.2739	0.7424	-0.0233	0.0066	0.0180	0.3242	-2.7107	
4	-1.20	0.01	-0.1684	0.4877	-0.0248	-0.0853	0.0200	0.3252	-2.8464	
5	-0.67	-0.01	-0.0922	0.2920	-0.0199	-0.0331	0.0220	0.3414	-3.1679	
6	-0.09	0.04	-0.0008	0.1121	-0.0261	-0.0774	0.0200	0.3572	-140.1500	
7	0.41	-0.01	0.0796	-0.1294	-0.0420	-0.0352	0.0210	0.3571	-1.6261	
8	0.91	0.02	0.1548	-0.2937	-0.0264	-0.0800	0.0200	0.3681	-1.8974	
9	1.40	0.03	0.2286	-0.5120	-0.0331	-0.0806	0.0230	0.3812	-2.2399	
10	1.88	0.0	0.3280	-0.7891	0.0409	-0.1412	0.0200	0.3806	-2.4061	
11	2.39	0.02	0.4058	-1.0021	0.0610	-0.1294	0.0180	0.3739	-2.4692	
12	2.85	0.02	0.4832	-1.1955	-0.0075	0.0322	0.0220	0.3691	-2.4739	
13	3.35	0.02	0.5906	-1.4018	0.0068	-0.0845	0.0200	0.3678	-2.3734	
14	3.80	0.03	0.6618	-1.6004	-0.0646	-0.0686	0.0210	0.3575	-2.4183	
15	4.24	0.02	0.7441	-1.8566	-0.0745	0.0493	0.0250	0.3546	-2.4683	
16	4.70	0.0	0.8464	-2.0858	-0.0401	-0.0069	0.0250	0.3484	-2.4644	
17	5.13	0.02	0.9403	-2.3403	-0.0041	0.0267	0.0230	0.3434	-2.4889	
18	5.59	0.02	0.9911	-2.5213	-0.0076	0.0346	0.0260	0.3199	-2.5441	
19	6.02	0.02	1.0773	-2.7660	0.0590	0.0684	0.0220	0.3173	-2.5676	
20	6.49	0.05	1.2144	-3.0710	0.1192	-0.1089	0.0210	0.3253	-2.5288	
21	6.92	0.04	1.2759	-3.2381	-0.0034	-0.0472	0.0230	0.3276	-2.5378	
22	7.38	0.04	1.3940	-3.5074	-0.0083	0.0126	0.0200	0.3322	-2.5071	
23	7.82	0.07	1.4799	-3.6597	0.0553	0.0116	0.0210	0.3181	-2.4729	
24	8.24	0.06	1.5384	-3.8105	0.0043	0.1390	0.0210	0.3084	-2.4770	
25	8.65	-0.03	1.6052	-3.9840	-0.1751	0.0217	0.0280	0.3026	-2.4820	
26	9.07	0.08	1.6816	-4.1270	0.0025	0.0845	0.0220	0.3002	-2.4542	
27	9.47	-0.02	1.7580	-4.2739	0.0425	0.0215	0.0210	0.3030	-2.4312	
28	9.87	0.06	1.8390	-4.4373	-0.0310	0.0684	0.0220	0.2982	-2.4129	
29	10.27	0.05	1.9040	-4.5563	-0.0534	0.1057	0.0240	0.2942	-2.3931	
30	10.67	0.01	1.9864	-4.7539	0.0746	0.0516	0.0200	0.3025	-2.3931	
31	11.06	0.05	2.0888	-4.9861	0.0120	0.0732	0.0240	0.3111	-2.3870	
32	11.44	0.04	2.1968	-5.1293	0.0170	0.1182	0.0160	0.3354	-2.3349	
33	11.81	0.02	2.2347	-5.2563	0.0329	0.1165	0.0240	0.3500	-2.3521	
34	12.16	-0.04	2.3306	-5.4455	-0.0515	0.1161	0.0200	0.3501	-2.3365	
35	12.54	-0.03	2.4061	-5.5572	-0.0578	0.1469	0.0180	0.3442	-2.3097	
36	12.87	0.0	2.4704	-5.6842	-0.0465	0.1351	0.0130	0.3417	-2.3010	
37	13.26	-0.01	2.5355	-5.8384	0.0202	0.1827	0.0210	0.3449	-2.3027	
38	13.60	-0.02	2.6026	-5.9463	-0.0622	0.1891	0.0070	0.3407	-2.2848	
39	13.97	0.03	2.7269	-6.1324	0.0237	0.1758	0.0120	0.3369	-2.2488	
40	14.31	0.0	2.7622	-6.1408	0.0444	0.2028	0.0140	0.3225	-2.2231	
41	14.67	-0.01	2.8436	-6.2868	-0.0128	0.2649	0.0160	0.3052	-2.2106	
42	15.00	-0.01	2.9109	-6.4080	0.0272	0.0199	0.0080	0.3055	-2.2014	
43	15.36	-0.03	3.0110	-6.5131	-0.0666	0.0782	0.0120	0.3056	-2.1631	
44	15.69	0.01	3.0771	-6.5996	-0.0298	0.2517	0.0070	0.2998	-2.1448	
45	16.01	-0.02	3.1047	-6.6503	-0.0297	0.1856	0.0	0.2999	-2.1420	
46	16.35	-0.01	3.2061	-6.8062	-0.0457	0.3489	0.0130	0.2917	-2.1229	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	17	1.05	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.67	-0.01	3.2940	-7.0002	0.0294	0.1278	-0.0020	0.2995	-2.1252		
48	17.01	0.0	3.3541	-7.0044	0.0360	0.2526	-0.0030	0.2968	-2.0883		
49	17.33	-0.02	3.4209	-7.1249	0.0201	0.3438	-0.0040	0.2875	-2.0828		
50	17.68	-0.05	3.5111	-7.2143	-0.0067	0.3863	-0.0100	0.2848	-2.0547		
51	18.01	0.01	3.5916	-7.2840	-0.0034	0.1837	-0.0120	0.2736	-2.0280		
52	18.36	0.0	3.7047	-7.4203	-0.0318	0.2115	-0.0160	0.2769	-2.0029		
53	18.67	-0.07	3.7402	-7.5140	-0.0862	0.3036	0.0010	0.2865	-2.0090		
54	18.99	-0.01	3.8664	-7.6807	0.0417	0.1796	-0.0130	0.3000	-1.9865		
55	19.35	-0.01	3.9673	-7.7569	0.0355	0.0623	-0.0180	0.3237	-1.9552		
56	19.67	-0.04	4.0247	-7.7223	0.0134	0.2432	-0.0130	0.3249	-1.9187		
57	20.00	-0.03	4.0493	-7.7617	-0.0636	0.3530	-0.0130	0.3297	-1.9168		
58	20.34	-0.02	4.1975	-7.8022	-0.0394	0.2031	-0.0220	0.3198	-1.8588		
59	20.69	-0.04	4.2195	-7.8681	-0.0425	0.3125	-0.0160	0.3150	-1.8647		
60	21.02	-0.05	4.3529	-7.8489	-0.1418	0.4345	-0.0230	0.3064	-1.8031		
61	21.33	-0.02	4.4075	-7.9633	0.0284	0.4582	-0.0310	0.3029	-1.8068		
62	21.67	-0.01	4.5318	-8.0103	0.0679	0.5479	-0.0350	0.2890	-1.7676		
63	21.97	-0.06	4.5724	-8.1701	-0.1509	0.2992	-0.0200	0.2810	-1.7868		
64	22.28	-0.05	4.6707	-8.2627	0.0788	0.1557	-0.0200	0.2771	-1.7691		
65	22.59	-0.07	4.7698	-8.3885	-0.1855	0.2857	-0.0210	0.2580	-1.7587		
66	22.89	-0.05	4.7850	-8.4237	-0.1182	0.3664	-0.0330	0.2486	-1.7605		
67	23.22	-0.06	4.8696	-8.4702	-0.1351	0.6391	-0.0430	0.2474	-1.7394		
68	23.56	-0.05	5.0567	-8.4772	0.0393	0.2369	-0.0320	0.2301	-1.6764		
69	23.87	-0.03	5.0061	-8.4404	-0.0878	0.5299	-0.0340	0.2233	-1.6860		
70	24.19	-0.06	5.1513	-8.5157	0.0772	0.0619	-0.0230	0.2331	-1.6531		
71	24.51	-0.07	5.2526	-8.5315	0.1025	0.0015	-0.0160	0.2277	-1.6242		
72	24.83	-0.08	5.3599	-8.5037	0.0099	-0.0029	-0.0070	0.2199	-1.5865		
73	25.13	-0.09	5.4784	-8.5576	-0.0590	0.0536	-0.0040	0.2204	-1.5621		
74	25.46	-0.08	5.5282	-8.5183	-0.1367	0.4583	-0.0320	0.2164	-1.5409		
75	25.74	-0.07	5.6092	-8.5507	-0.0597	0.3885	-0.0280	0.1992	-1.5244		
76	26.04	-0.09	5.7418	-8.5365	-0.0425	0.1905	-0.0150	0.1977	-1.4867		
77	26.36	-0.08	5.8668	-8.4755	-0.0856	0.2598	-0.0200	0.1900	-1.4397		
78	26.65	-0.08	5.9844	-8.5202	-0.0729	0.1060	-0.0040	0.1874	-1.4237		
79	26.97	-0.07	6.1065	-8.6121	0.1417	-0.3323	0.0340	0.1747	-1.4103		
80	27.31	-0.05	6.2853	-8.4574	0.2118	-0.2255	0.0260	0.1522	-1.3456		
81	27.61	-0.07	6.2927	-8.5228	-0.0513	0.2158	-0.0190	0.1724	-1.3544		
82	27.91	-0.08	6.4197	-8.5716	0.0112	-0.0437	0.0130	0.1689	-1.3352		
83	28.22	-0.09	6.5363	-8.5840	0.0033	-0.2686	0.0370	0.1466	-1.3133		
84	28.56	-0.02	6.6755	-8.5108	0.1475	0.1335	0.0100	0.1196	-1.2749		
85	28.88	-0.07	6.8324	-8.4745	-0.1047	0.3805	-0.0080	0.0997	-1.2403		
86	29.21	-0.08	6.9939	-8.4136	-0.1814	0.2769	-0.0050	0.0576	-1.2030		
87	29.52	-0.16	7.0585	-8.4810	-0.4756	-0.0970	0.0410	0.0770	-1.2015		
88	29.73	0.03	7.0507	-8.5401	0.3095	0.4866	-0.0020	0.0765	-1.2112		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		17	1.05	1.7	0.0	82W0F12	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.74	-0.04	-0.0249	0.0005	0.0004	-0.0201	-0.0162	-0.1731	0.0021	-0.0734	-0.0124	0.4239
2	-2.39	-0.01	-0.0218	0.0002	0.0024	-0.0092	-0.1117	-0.1498	0.0017	-0.0651	-0.0117	0.4347
3	-1.78	0.04	-0.0155	0.0000	0.0020	-0.0032	-0.1313	-0.1125	0.0012	-0.0500	-0.0111	0.4443
4	-1.20	0.01	-0.0193	0.0002	0.0033	-0.0104	-0.1694	-0.0688	0.0004	-0.0295	-0.0058	0.4291
5	-0.67	-0.01	-0.0151	-0.0002	0.0051	0.0166	-0.3357	-0.0649	0.0000	-0.0197	-0.0011	0.4379
6	-0.09	0.04	-0.0209	0.0001	0.0043	-0.0048	-0.2075	-0.0103	-0.0003	-0.0056	0.0291	0.5468
7	0.41	-0.01	-0.0196	0.0	0.0034	0.0	-0.1719	0.0157	-0.0008	0.0064	-0.0509	0.4096
8	0.91	0.02	-0.0213	-0.0001	0.0049	0.0070	-0.2302	0.0422	-0.0012	0.0168	-0.0284	0.3972
9	1.40	0.03	-0.0148	-0.0008	0.0058	0.0540	-0.3898	0.0815	-0.0012	0.0339	-0.0153	0.4154
10	1.88	0.0	-0.0129	-0.0004	0.0061	0.0310	-0.4730	0.1144	-0.0025	0.0499	-0.0223	0.4364
11	2.39	0.02	-0.0107	-0.0005	0.0068	0.0514	-0.6387	0.1464	-0.0027	0.0628	-0.0184	0.4288
12	2.85	0.02	-0.0223	-0.0002	0.0026	0.0112	-0.1152	0.1716	-0.0023	0.0717	-0.0137	0.4177
13	3.35	0.02	-0.0117	-0.0012	0.0061	0.1068	-0.5215	0.2035	-0.0027	0.0860	-0.0133	0.4226
14	3.80	0.03	-0.0171	-0.0007	0.0054	0.0409	-0.3159	0.2302	-0.0037	0.0970	-0.0161	0.4214
15	4.24	0.02	-0.0162	-0.0009	0.0053	0.0586	-0.3273	0.2570	-0.0040	0.1067	-0.0158	0.4153
16	4.70	0.0	-0.0171	-0.0009	0.0032	0.0526	-0.1873	0.2942	-0.0040	0.1232	-0.0136	0.4188
17	5.13	0.02	-0.0143	-0.0014	0.0051	0.0979	-0.3591	0.3278	-0.0042	0.1325	-0.0128	0.4043
18	5.59	0.02	-0.0147	-0.0011	0.0016	0.0748	-0.1090	0.3551	-0.0047	0.1423	-0.0132	0.4008
19	6.02	0.02	-0.0107	-0.0017	0.0026	0.1589	-0.2462	0.3874	-0.0048	0.1552	-0.0125	0.4006
20	6.49	0.05	-0.0113	-0.0014	0.0015	0.1239	-0.1358	0.4217	-0.0047	0.1674	-0.0113	0.3970
21	6.92	0.04	-0.0170	-0.0016	0.0022	0.0970	-0.1315	0.4498	-0.0047	0.1775	-0.0104	0.3946
22	7.38	0.04	-0.0164	-0.0021	0.0022	0.1280	-0.1363	0.4846	-0.0050	0.1884	-0.0104	0.3887
23	7.82	0.07	-0.0205	-0.0023	0.0019	0.1122	-0.0912	0.5056	-0.0047	0.1965	-0.0093	0.3886
24	8.24	0.06	-0.0240	-0.0028	0.0021	0.1187	-0.0876	0.5286	-0.0047	0.2032	-0.0089	0.3845
25	8.65	-0.03	-0.0253	-0.0028	0.0025	0.1107	-0.0976	0.5586	-0.0044	0.2132	-0.0079	0.3817
26	9.07	0.08	-0.0293	-0.0030	0.0014	0.1024	-0.0490	0.5780	-0.0039	0.2185	-0.0067	0.3780
27	9.47	-0.02	-0.0306	-0.0037	0.0023	0.1225	-0.0753	0.5970	-0.0040	0.2257	-0.0068	0.3781
28	9.87	0.06	-0.0326	-0.0034	0.0020	0.1043	-0.0625	0.6184	-0.0036	0.2329	-0.0058	0.3765
29	10.27	0.05	-0.0351	-0.0042	0.0016	0.1196	-0.0457	0.6337	-0.0033	0.2386	-0.0053	0.3766
30	10.67	0.01	-0.0339	-0.0048	0.0045	0.1416	-0.1329	0.6589	-0.0036	0.2457	-0.0055	0.3730
31	11.06	0.05	-0.0402	-0.0041	0.0005	0.1032	-0.0225	0.6880	-0.0040	0.2541	-0.0059	0.3694
32	11.44	0.04	-0.0461	-0.0032	-0.0019	0.0705	0.0404	0.7110	-0.0045	0.2596	-0.0063	0.3651
33	11.81	0.02	-0.0449	-0.0048	-0.0003	0.1080	0.0058	0.7315	-0.0045	0.2647	-0.0061	0.3619
34	12.16	-0.04	-0.0537	-0.0049	-0.0005	0.0512	0.0092	0.7460	-0.0049	0.2698	-0.0066	0.3616
35	12.54	-0.03	-0.0487	-0.0041	-0.0012	0.0852	0.0252	0.7735	-0.0044	0.2756	-0.0057	0.3564
36	12.87	0.0	-0.0610	-0.0048	-0.0042	0.0795	0.0693	0.7844	-0.0035	0.2784	-0.0045	0.3549
37	13.26	-0.01	-0.0567	-0.0067	-0.0007	0.1190	0.0122	0.7998	-0.0045	0.2847	-0.0057	0.3560
38	13.60	-0.02	-0.0564	-0.0047	-0.0077	0.0833	0.1364	0.8210	-0.0042	0.2891	-0.0052	0.3522
39	13.97	0.03	-0.0594	-0.0043	-0.0096	0.0724	0.1615	0.8370	-0.0041	0.2943	-0.0049	0.3516
40	14.31	0.0	-0.0686	-0.0059	-0.0074	0.0867	0.1073	0.8499	-0.0034	0.2953	-0.0041	0.3474
41	14.67	-0.01	-0.0703	-0.0056	-0.0103	0.0796	0.1469	0.8637	-0.0033	0.3005	-0.0038	0.3479
42	15.00	-0.01	-0.0723	-0.0066	-0.0078	0.0920	0.1078	0.8760	-0.0034	0.3030	-0.0039	0.3459
43	15.36	-0.03	-0.0779	-0.0049	-0.0132	0.0635	0.1689	0.8974	-0.0038	0.3088	-0.0042	0.3441
44	15.69	0.01	-0.0849	-0.0083	-0.0096	0.0977	0.1130	0.9090	-0.0042	0.3109	-0.0046	0.3420
45	16.01	-0.02	-0.0849	-0.0047	-0.0167	0.0559	0.1966	0.9201	-0.0038	0.3146	-0.0041	0.3419
46	16.35	-0.01	-0.0935	-0.0097	-0.0106	0.1043	0.1129	0.9280	-0.0039	0.3152	-0.0042	0.3397

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6											PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6											17	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2								
47	16.67	-0.01	-0.0824	-0.0035	-0.0204	0.0425	0.2470	0.9612	-0.0041	0.3232	-0.0043	0.3362								
48	17.01	0.0	-0.0939	-0.0051	-0.0209	0.0543	0.2225	0.9639	-0.0044	0.3235	-0.0046	0.3356								
49	17.33	-0.02	-0.0951	-0.0058	-0.0207	0.0615	0.2175	0.9762	-0.0048	0.3266	-0.0049	0.3338								
50	17.64	-0.05	-0.1052	-0.0073	-0.0209	0.0694	0.1982	0.9947	-0.0046	0.3306	-0.0047	0.3323								
51	18.01	0.01	-0.1015	-0.0058	-0.0209	0.0571	0.2061	1.0099	-0.0048	0.3344	-0.0048	0.3311								
52	18.36	0.0	-0.0898	-0.0027	-0.0240	0.0301	0.2675	1.0340	-0.0055	0.3410	-0.0054	0.3298								
53	18.67	-0.07	-0.0999	-0.0077	-0.0168	0.0771	0.1681	1.0391	-0.0062	0.3426	-0.0060	0.3298								
54	18.99	-0.01	-0.0986	-0.0049	-0.0218	0.0502	0.2206	1.0614	-0.0064	0.3476	-0.0061	0.3275								
55	19.35	-0.01	-0.0840	-0.0017	-0.0241	0.0208	0.2868	1.0814	-0.0077	0.3504	-0.0072	0.3241								
56	19.67	-0.04	-0.0627	-0.0003	-0.0233	0.0036	0.2812	1.0796	-0.0080	0.3531	-0.0074	0.3271								
57	20.00	-0.03	-0.1268	-0.0081	-0.0284	0.0639	0.2244	1.0669	-0.0069	0.3485	-0.0065	0.3267								
58	20.34	-0.02	-0.0925	-0.0003	-0.0301	0.0032	0.3256	1.0951	-0.0077	0.3544	-0.0070	0.3236								
59	20.69	-0.04	-0.1126	-0.0021	-0.0310	0.0186	0.2755	1.0946	-0.0072	0.3539	-0.0066	0.3233								
60	21.02	-0.05	-0.1072	-0.0038	-0.0383	-0.0354	0.3575	1.1060	-0.0073	0.3567	-0.0066	0.3225								
61	21.33	-0.02	-0.1192	-0.0021	-0.0367	0.0176	0.3080	1.1095	-0.0077	0.3574	-0.0069	0.3221								
62	21.67	-0.01	-0.1183	0.0014	-0.0355	-0.0118	0.3341	1.1228	-0.0079	0.3627	-0.0071	0.3231								
63	21.97	-0.06	-0.1081	-0.0002	-0.0324	0.0023	0.2999	1.1428	-0.0080	0.3672	-0.0070	0.3213								
64	22.28	-0.05	-0.0906	0.0008	-0.0289	-0.0094	0.3189	1.1606	-0.0089	0.3684	-0.0077	0.3174								
65	22.59	-0.07	-0.1164	-0.0005	-0.0331	0.0047	0.2842	1.1769	-0.0077	0.3757	-0.0066	0.3192								
66	22.89	-0.05	-0.1629	-0.0026	-0.0501	0.0160	0.3074	1.1899	-0.0064	0.3761	-0.0054	0.3161								
67	23.22	-0.06	-0.1445	-0.0003	-0.0480	0.0024	0.3325	1.1943	-0.0076	0.3770	-0.0064	0.3156								
68	23.56	-0.05	-0.0929	0.0042	-0.0320	-0.0452	0.3451	1.2095	-0.0087	0.3800	-0.0072	0.3142								
69	23.87	-0.03	-0.0947	0.0032	-0.0298	-0.0343	0.3142	1.2316	-0.0072	0.3863	-0.0058	0.3137								
70	24.19	-0.06	-0.1012	0.0024	-0.0363	-0.0242	0.3787	1.2267	-0.0066	0.3831	-0.0070	0.3123								
71	24.51	-0.07	-0.0612	0.0041	-0.0242	-0.0678	0.3953	1.2340	-0.0097	0.3874	-0.0079	0.3139								
72	24.83	-0.08	-0.0453	0.0038	-0.0136	-0.0850	0.3001	1.2466	-0.0102	0.3881	-0.0082	0.3113								
73	25.13	-0.09	-0.0854	0.0014	-0.0261	-0.0170	0.3051	1.2376	-0.0096	0.3869	-0.0078	0.3126								
74	25.46	-0.08	-0.1575	0.0	-0.0610	0.0	0.3872	1.2360	-0.0090	0.3858	-0.0073	0.3122								
75	25.74	-0.07	-0.1154	0.0010	-0.0429	-0.0091	0.3722	1.2449	-0.0088	0.3869	-0.0071	0.3108								
76	26.04	-0.09	-0.0464	-0.0000	-0.0042	0.0011	0.0897	1.2644	-0.0108	0.3945	-0.0085	0.3119								
77	26.36	-0.08	-0.0824	0.0014	-0.0208	-0.0170	0.2519	1.2699	-0.0105	0.3949	-0.0083	0.3110								
78	26.65	-0.08	-0.0662	0.0013	-0.0195	-0.0196	0.2939	1.2789	-0.0108	0.3963	-0.0084	0.3099								
79	26.97	-0.07	-0.0110	-0.0000	0.0141	0.0045	-1.2850	1.2950	-0.0105	0.4013	-0.0081	0.3099								
80	27.31	-0.05	0.0114	-0.0008	0.0162	-0.0702	1.4209	1.2949	-0.0094	0.4009	-0.0073	0.3096								
81	27.61	-0.07	-0.0819	0.0022	-0.0234	-0.0275	0.2856	1.3029	-0.0109	0.4012	-0.0084	0.3080								
82	27.91	-0.08	-0.0788	0.0009	-0.0245	-0.0114	0.3104	1.3040	-0.0108	0.4025	-0.0083	0.3087								
83	28.22	-0.09	-0.0046	-0.0000	0.0137	0.0052	-1.4272	1.3113	-0.0105	0.4047	-0.0079	0.3087								
84	28.56	-0.02	-0.0521	-0.0010	-0.0004	0.0192	0.0069	1.3092	-0.0088	0.4029	-0.0068	0.3078								
85	28.88	-0.07	-0.0772	-0.0022	-0.0078	0.0285	-0.1013	1.3118	-0.0086	0.4029	-0.0066	0.3071								
86	29.21	-0.08	-0.0491	-0.0017	0.0059	0.0346	-0.1210	1.3192	-0.0073	0.4043	-0.0056	0.3065								
87	29.52	-0.16	-0.0248	-0.0048	0.0230	0.1935	-0.9289	1.3203	-0.0092	0.4073	-0.0070	0.3085								
88	29.73	0.03	-0.0705	-0.0022	-0.0033	0.0319	0.0467	1.3266	-0.0080	0.4079	-0.0060	0.3075								

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 17 1.05 1.7			0.0	0.82	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	-2.74	-0.04	-0.0111	0.0007	-0.0022	-0.0676	0.1981	-0.2315	0.0023	-0.0599	-0.0101	0.2589
2	-2.39	-0.01	-0.0030	0.0004	0.0001	-0.1500	-0.0335	-0.2142	0.0021	-0.0519	-0.0100	0.2422
3	-1.78	0.04	0.0010	0.0005	-0.0001	0.4999	-0.0668	-0.1677	0.0016	-0.0350	-0.0098	0.2086
4	-1.20	0.01	-0.0073	0.0007	0.0004	-0.1027	-0.0503	-0.1286	0.0008	-0.0178	-0.0062	0.1388
5	-0.67	-0.01	-0.0083	0.0004	-0.0016	-0.0542	0.1886	-0.1036	0.0004	-0.0067	-0.0039	0.0649
6	-0.09	0.04	0.0020	0.0008	0.0014	0.3999	0.6832	-0.0554	0.0002	0.0097	-0.0045	-0.1758
7	0.41	-0.01	0.0019	0.0007	0.0027	0.3947	1.4385	-0.0281	-0.0004	0.0244	0.0160	-0.8696
8	0.91	0.02	0.0060	0.0005	0.0032	0.0833	0.5332	-0.0014	-0.0006	0.0358	0.4285	-25.5954
9	1.40	0.03	0.0019	0.0008	0.0021	0.4210	1.1227	0.0353	-0.0001	0.0502	-0.0042	1.4210
10	1.88	0.0	0.0031	0.0007	0.0040	0.2419	1.3010	0.0686	-0.0014	0.0650	-0.0204	0.9484
11	2.39	0.02	0.0084	0.0006	0.0045	0.0774	0.5356	0.1030	-0.0015	0.0769	-0.0146	0.7468
12	2.85	0.02	0.0019	0.0004	0.0037	0.2368	1.9648	0.1369	-0.0020	0.0916	-0.0150	0.6692
13	3.35	0.02	0.0083	0.0008	0.0046	0.0964	0.5501	0.1631	-0.0011	0.1014	-0.0067	0.6220
14	3.80	0.03	0.0081	0.0004	0.0080	0.0555	0.9875	0.2041	-0.0029	0.1160	-0.0142	0.5684
15	4.24	0.02	-0.0009	0.0009	0.0022	-1.0554	-2.4446	0.2171	-0.0032	0.1265	-0.0147	0.5829
16	4.70	0.0	0.0005	0.0009	0.0051	0.0947	0.5332	0.2738	-0.0028	0.1453	-0.0104	0.5308
17	5.13	0.02	0.0082	0.0007	0.0055	0.0914	0.6747	0.2962	-0.0032	0.1548	-0.0108	0.5225
18	5.59	0.02	0.0006	0.0008	0.0018	1.3331	2.9999	0.3219	-0.0045	0.1658	-0.0140	0.5149
19	6.02	0.02	0.0084	0.0007	0.0043	0.0893	0.5118	0.3552	-0.0041	0.1775	-0.0115	0.4996
20	6.49	0.05	0.0174	0.0008	0.0075	0.0460	0.4309	0.3904	-0.0038	0.1914	-0.0099	0.4902
21	6.92	0.04	0.0108	0.0010	0.0050	0.0972	0.4628	0.4184	-0.0038	0.2011	-0.0092	0.4806
22	7.38	0.04	0.0198	0.0011	0.0079	0.0555	0.3989	0.4546	-0.0039	0.2146	-0.0080	0.4720
23	7.82	0.07	0.0108	0.0008	0.0064	0.0741	0.5425	0.4779	-0.0037	0.2213	-0.0078	0.4631
24	8.24	0.06	0.0156	0.0013	0.0082	0.0865	0.5255	0.5032	-0.0032	0.2317	-0.0064	0.4604
25	8.65	-0.03	0.0104	0.0014	0.0065	0.1346	0.6217	0.5318	-0.0030	0.2414	-0.0057	0.4539
26	9.07	0.08	0.0078	0.0010	0.0082	0.1282	1.0512	0.5503	-0.0028	0.2465	-0.0051	0.4479
27	9.47	-0.02	0.0237	0.0010	0.0105	0.0422	0.4429	0.5774	-0.0030	0.2551	-0.0053	0.4418
28	9.87	0.06	0.0105	0.0009	0.0088	0.0905	0.8380	0.5991	-0.0032	0.2628	-0.0054	0.4387
29	10.27	0.05	0.0160	0.0007	0.0091	0.0469	0.5707	0.6222	-0.0036	0.2696	-0.0058	0.4333
30	10.67	0.01	0.0107	0.0006	0.0088	0.0607	0.8192	0.6441	-0.0032	0.2769	-0.0050	0.4299
31	11.06	0.05	0.0183	0.0013	0.0098	0.0710	0.5354	0.6723	-0.0035	0.2868	-0.0053	0.4266
32	11.44	0.04	0.0182	0.0010	0.0112	0.0549	0.6134	0.6981	-0.0049	0.2934	-0.0070	0.4203
33	11.81	0.02	0.0226	0.0007	0.0099	0.0332	0.4394	0.7230	-0.0057	0.3009	-0.0079	0.4162
34	12.16	-0.04	0.0207	0.0012	0.0113	0.0580	0.5458	0.7376	-0.0058	0.3053	-0.0079	0.4139
35	12.54	-0.03	0.0207	0.0011	0.0113	0.0555	0.5458	0.7579	-0.0051	0.3119	-0.0068	0.4116
36	12.87	0.0	0.0275	0.0007	0.0131	0.0273	0.4750	0.7680	-0.0054	0.3158	-0.0071	0.4112
37	13.26	-0.01	0.0183	0.0007	0.0111	0.0410	0.6064	0.7949	-0.0059	0.3236	-0.0075	0.4072
38	13.60	-0.02	0.0221	0.0009	0.0121	0.0407	0.5459	0.8132	-0.0061	0.3268	-0.0076	0.4019
39	13.97	0.03	0.0313	0.0008	0.0135	0.0272	0.4323	0.8290	-0.0062	0.3327	-0.0075	0.4014
40	14.31	0.0	0.0271	0.0013	0.0128	0.0498	0.4734	0.8464	-0.0062	0.3380	-0.0073	0.3994
41	14.67	-0.01	0.0261	0.0010	0.0118	0.0402	0.4520	0.8585	-0.0051	0.3422	-0.0060	0.3985
42	15.00	-0.01	0.0360	0.0014	0.0167	0.0389	0.4638	0.8823	-0.0049	0.3467	-0.0056	0.3929
43	15.36	-0.03	0.0279	0.0019	0.0151	0.0681	0.5411	0.8991	-0.0055	0.3508	-0.0062	0.3901
44	15.69	0.01	0.0230	0.0015	0.0129	0.0652	0.5593	0.9134	-0.0047	0.3539	-0.0051	0.3874
45	16.01	-0.02	0.0311	0.0009	0.0150	0.0305	0.4811	0.9207	-0.0054	0.3552	-0.0059	0.3858
46	16.35	-0.01	0.0349	0.0007	0.0184	0.0201	0.5281	0.9519	-0.0051	0.3646	-0.0054	0.3830

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RA10-6		PHI		CONF		L		DEL1		DEL2		DEL3		DEL4		TRANSITION	
6			17		1.05 1.7		0.0		82WOF12		0.0		0		0		0		0		FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4										
47	16.67	-0.01	0.0287	0.0004	0.0160	0.0157	0.5562	0.9513	-0.0059	0.3641	-0.0063	0.3827										
48	17.01	0.0	0.0244	0.0008	0.0155	0.0348	0.6365	0.9644	-0.0061	0.3692	-0.0063	0.3828										
49	17.33	-0.02	0.0411	0.0010	0.0215	0.0255	0.5230	0.9898	-0.0052	0.3736	-0.0053	0.3775										
50	17.68	-0.05	0.0367	-0.0000	0.0190	-0.0014	0.5185	1.0038	-0.0059	0.3771	-0.0059	0.3756										
51	18.01	0.01	0.0325	0.0002	0.0192	0.0062	0.5917	1.0053	-0.0057	0.3781	-0.0057	0.3761										
52	18.36	0.0	0.0360	0.0010	0.0197	0.0292	0.5471	1.0255	-0.0057	0.3828	-0.0056	0.3733										
53	18.67	-0.07	0.0308	0.0009	0.0190	0.0292	0.6157	1.0521	-0.0059	0.3898	-0.0057	0.3705										
54	18.99	-0.01	0.0358	0.0010	0.0207	0.0279	0.5790	1.0662	-0.0072	0.3930	-0.0068	0.3686										
55	19.35	-0.01	0.0410	0.0005	0.0237	0.0122	0.5771	1.0673	-0.0080	0.3950	-0.0075	0.3701										
56	19.67	-0.04	0.0446	0.0008	0.0234	0.0191	0.5238	1.0718	-0.0079	0.3951	-0.0074	0.3687										
57	20.00	-0.03	0.0409	0.0003	0.0220	0.0086	0.5386	1.0910	-0.0085	0.4002	-0.0078	0.3668										
58	20.34	-0.02	0.0394	0.0001	0.0228	0.0038	0.5794	1.0913	-0.0076	0.3986	-0.0070	0.3653										
59	20.69	-0.04	0.0356	-0.0002	0.0226	-0.0070	0.6338	1.1021	-0.0082	0.4026	-0.0074	0.3653										
60	21.02	-0.05	0.0389	0.0007	0.0235	0.0180	0.6031	1.1042	-0.0077	0.4033	-0.0070	0.3653										
61	21.33	-0.02	0.0456	0.0001	0.0250	0.0033	0.5481	1.1267	-0.0085	0.4087	-0.0075	0.3628										
62	21.67	-0.01	0.0403	0.0001	0.0256	0.0025	0.6359	1.1319	-0.0085	0.4109	-0.0075	0.3630										
63	21.97	-0.06	0.0338	0.0007	0.0220	0.0207	0.6498	1.1425	-0.0084	0.4119	-0.0073	0.3605										
64	22.28	-0.05	0.0396	0.0010	0.0271	0.0265	0.6842	1.1553	-0.0082	0.4157	-0.0071	0.3598										
65	22.59	-0.07	0.0443	0.0000	0.0267	0.0011	0.6018	1.1796	-0.0084	0.4211	-0.0071	0.3569										
66	22.89	-0.05	0.0401	0.0009	0.0245	0.0224	0.6200	1.2092	-0.0080	0.4273	-0.0066	0.3534										
67	23.22	-0.06	0.0450	0.0012	0.0266	0.0278	0.5910	1.2040	-0.0082	0.4290	-0.0068	0.3563										
68	23.56	-0.05	0.0548	0.0015	0.0319	0.0274	0.5814	1.2024	-0.0071	0.4282	-0.0059	0.3562										
69	23.87	-0.03	0.0423	0.0014	0.0264	0.0343	0.6240	1.2123	-0.0065	0.4287	-0.0054	0.3537										
70	24.19	-0.06	0.0549	0.0014	0.0319	0.0255	0.5809	1.2279	-0.0075	0.4325	-0.0061	0.3523										
71	24.51	-0.07	0.0516	0.0009	0.0291	0.0184	0.5638	1.2196	-0.0078	0.4315	-0.0064	0.3538										
72	24.83	-0.08	0.0462	0.0012	0.0283	0.0271	0.6124	1.2205	-0.0078	0.4312	-0.0064	0.3533										
73	25.13	-0.09	0.0474	0.0014	0.0282	0.0295	0.5948	1.2374	-0.0081	0.4340	-0.0065	0.3507										
74	25.46	-0.08	0.0412	0.0010	0.0265	0.0255	0.6439	1.2607	-0.0094	0.4415	-0.0075	0.3502										
75	25.74	-0.07	0.0474	0.0012	0.0288	0.0264	0.6075	1.2625	-0.0078	0.4386	-0.0062	0.3474										
76	26.04	-0.09	0.0498	0.0015	0.0301	0.0301	0.6043	1.2572	-0.0078	0.4392	-0.0062	0.3494										
77	26.36	-0.08	0.0471	0.0016	0.0295	0.0350	0.6262	1.2699	-0.0082	0.4422	-0.0065	0.3483										
78	26.65	-0.08	0.0550	0.0012	0.0311	0.0218	0.5659	1.2808	-0.0081	0.4440	-0.0063	0.3466										
79	26.97	-0.07	0.0497	0.0018	0.0286	0.0372	0.5747	1.2790	-0.0072	0.4430	-0.0057	0.3463										
80	27.31	-0.05	0.0595	0.0018	0.0349	0.0302	0.5870	1.2918	-0.0063	0.4461	-0.0049	0.3454										
81	27.61	-0.07	0.0522	0.0017	0.0303	0.0335	0.5803	1.3013	-0.0085	0.4506	-0.0066	0.3463										
82	27.91	-0.08	0.0548	0.0016	0.0310	0.0301	0.5650	1.3158	-0.0086	0.4520	-0.0066	0.3435										
83	28.22	-0.09	0.0588	0.0015	0.0314	0.0264	0.5339	1.3097	-0.0069	0.4507	-0.0053	0.3441										
84	28.56	-0.02	0.0591	0.0010	0.0323	0.0178	0.5464	1.3188	-0.0059	0.4550	-0.0045	0.3450										
85	28.88	-0.07	0.0598	0.0018	0.0337	0.0309	0.5640	1.3319	-0.0047	0.4591	-0.0036	0.3447										
86	29.21	-0.08	0.0588	0.0021	0.0307	0.0357	0.5220	1.3255	-0.0044	0.4559	-0.0034	0.3439										
87	29.52	-0.16	0.0651	0.0022	0.0337	0.0338	0.5175	1.3482	-0.0043	0.4613	-0.0032	0.3422										
88	29.73	0.03	0.0398	0.0015	0.0260	0.0389	0.6523	1.3399	-0.0046	0.4593	-0.0034	0.3428										

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	18	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.73	0.07	-0.4326	1.2226	0.0806	0.0352	0.0240	0.2866	-2.8259	
2	-2.58	0.07	-0.4018	1.1005	0.0808	-0.0471	0.0210	0.2803	-2.7386	
3	-2.00	0.04	-0.3185	0.8708	-0.0161	-0.0555	0.0220	0.2936	-2.7344	
4	-1.37	0.05	-0.2134	0.5827	0.0861	-0.0745	0.0220	0.3030	-2.7308	
5	-0.81	0.04	-0.1265	0.3701	0.0302	-0.0393	0.0200	0.3060	-2.9257	
6	-0.27	0.04	-0.0213	0.1208	0.0237	-0.0132	0.0200	0.3184	-5.6723	
7	0.24	0.04	0.0528	-0.0749	0.0220	-0.0808	0.0230	0.3105	-1.4189	
8	0.77	0.01	0.1340	-0.2416	0.1019	-0.1636	0.0240	0.3197	-1.8030	
9	1.25	0.05	0.2112	-0.4746	0.0344	-0.0652	0.0220	0.3205	-2.2475	
10	1.77	0.04	0.3178	-0.6948	-0.0100	-0.0120	0.0220	0.3207	-2.1867	
11	2.23	0.05	0.4044	-0.9102	0.0812	-0.0057	0.0210	0.3167	-2.2504	
12	2.71	0.03	0.4814	-1.1479	0.0627	-0.0478	0.0260	0.3121	-2.3844	
13	3.19	0.02	0.5569	-1.3136	0.1116	-0.1292	0.0270	0.3048	-2.3587	
14	3.66	0.01	0.6490	-1.5665	-0.0507	-0.0380	0.0250	0.3078	-2.4137	
15	4.13	0.05	0.7364	-1.7829	0.0406	0.0182	0.0280	0.2999	-2.4210	
16	4.57	0.03	0.7760	-1.9493	-0.0547	-0.0064	0.0300	0.2952	-2.5120	
17	5.03	0.03	0.8837	-2.1690	0.0404	0.0454	0.0250	0.2944	-2.4545	
18	5.46	-0.03	0.9883	-2.4714	-0.1030	0.0702	0.0300	0.2942	-2.5038	
19	5.92	0.01	1.0603	-2.6222	-0.0502	0.1093	0.0270	0.2854	-2.4732	
20	6.35	0.03	1.1572	-2.8940	0.0924	-0.0384	0.0280	0.2884	-2.5007	
21	6.81	0.05	1.2170	-3.0647	0.0279	0.0349	0.0230	0.2896	-2.5181	
22	7.26	-0.01	1.3278	-3.2898	-0.0943	0.0670	0.0290	0.2853	-2.4776	
23	7.67	0.01	1.4330	-3.5020	0.0775	-0.1165	0.0260	0.2800	-2.4438	
24	8.12	0.0	1.4688	-3.6051	-0.0253	-0.1596	0.0290	0.2651	-2.4545	
25	8.55	0.04	1.5563	-3.8866	-0.0107	0.0250	0.0270	0.2785	-2.4973	
26	8.96	0.06	1.6288	-4.0941	0.0057	0.0810	0.0260	0.2810	-2.5136	
27	9.36	0.0	1.7183	-4.2783	-0.1135	0.0369	0.0270	0.2872	-2.4899	
28	9.79	-0.05	1.7760	-4.3891	-0.0158	0.0721	0.0220	0.2871	-2.4714	
29	10.17	0.02	1.8928	-4.5856	-0.1101	0.1571	0.0250	0.2926	-2.4248	
30	10.59	-0.05	2.0076	-4.8044	-0.0605	0.1287	0.0290	0.2923	-2.3931	
31	10.95	0.0	2.0222	-4.8439	-0.1032	0.0285	0.0210	0.3068	-2.3953	
32	11.34	-0.05	2.1115	-5.0609	0.0355	0.0723	0.0220	0.2913	-2.3968	
33	11.68	0.0	2.1875	-5.2102	-0.0042	0.0939	0.0190	0.2848	-2.3818	
34	12.06	0.01	2.2725	-5.4082	0.0140	0.0644	0.0220	0.2850	-2.3798	
35	12.42	0.0	2.3655	-5.5754	0.0091	0.0273	0.0200	0.2884	-2.3570	
36	12.78	-0.02	2.4461	-5.7082	-0.0140	0.0846	0.0200	0.2825	-2.3336	
37	13.13	-0.01	2.5040	-5.8433	-0.0356	0.2228	0.0290	0.2725	-2.3336	
38	13.49	-0.02	2.6097	-6.0442	-0.1444	0.3101	0.0200	0.2744	-2.3161	
39	13.86	-0.01	2.6783	-6.1574	-0.0684	0.1787	0.0190	0.2726	-2.2989	
40	14.21	0.02	2.7745	-6.3190	0.0111	0.2344	0.0170	0.2772	-2.2775	
41	14.58	0.01	2.8507	-6.5047	-0.0269	0.2716	0.0180	0.2756	-2.2818	
42	14.90	-0.03	2.9179	-6.6058	-0.0433	0.2066	0.0180	0.2825	-2.2639	
43	15.27	-0.02	2.9962	-6.7254	-0.0463	0.1188	0.0050	0.2842	-2.2446	
44	15.60	-0.03	3.0791	-6.8214	-0.1347	0.2080	0.0120	0.2871	-2.2154	
45	15.91	0.0	3.1447	-6.9062	0.0527	0.2452	0.0060	0.2974	-2.1962	
46	16.26	-0.01	3.2398	-6.9714	-0.0538	0.3443	0.0150	0.2896	-2.1518	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER/NSROC

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	18	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.59	-0.02	3.2939	-7.0611	-0.0468	0.2125	-0.0080	0.2882	-2.1437	
48	16.42	0.01	3.4074	-7.2010	-0.0173	0.2912	0.0030	0.2820	-2.1134	
49	17.24	-0.02	3.4492	-7.2936	-0.0827	0.2937	0.0060	0.2797	-2.1146	
50	17.57	-0.07	3.5269	-7.4414	0.0024	0.0876	0.0030	0.2737	-2.1099	
51	17.89	-0.03	3.6051	-7.5149	-0.0640	0.1836	-0.0010	0.2741	-2.0845	
52	18.23	-0.03	3.6883	-7.6483	-0.0136	0.3850	-0.0010	0.2595	-2.0737	
53	18.56	0.0	3.7754	-7.7988	-0.0266	0.2422	-0.0010	0.2535	-2.0635	
54	18.88	-0.04	3.8731	-7.9500	-0.1495	0.3623	0.0120	0.2410	-2.0526	
55	19.22	-0.02	3.9591	-7.9864	-0.0165	0.3461	0.0010	0.2475	-2.0172	
56	19.53	-0.05	4.0519	-8.1213	-0.0852	0.0763	-0.0070	0.2327	-2.0043	
57	19.87	-0.01	4.1205	-8.2873	-0.0130	0.3202	-0.0030	0.2248	-2.0113	
58	20.20	-0.03	4.1777	-8.3114	-0.1604	0.3905	-0.0050	0.2220	-1.9895	
59	20.55	-0.04	4.3148	-8.4694	-0.0685	0.3419	0.0020	0.2183	-1.9629	
60	20.86	-0.03	4.3509	-8.5270	-0.2262	0.4896	0.0	0.1972	-1.9598	
61	21.21	-0.05	4.4527	-8.5145	-0.2327	0.6197	-0.0050	0.1950	-1.9122	
62	21.54	-0.02	4.5959	-8.6750	-0.0646	0.2827	-0.0020	0.1947	-1.8875	
63	21.84	-0.03	4.6465	-8.6968	-0.1549	0.6248	-0.0130	0.1915	-1.8717	
64	22.16	-0.01	4.7346	-8.7771	-0.1315	0.9450	-0.0200	0.1938	-1.8538	
65	22.45	-0.03	4.7222	-8.8088	-0.1216	0.2392	-0.0260	0.1925	-1.8634	
66	22.80	-0.03	4.8523	-8.7609	-0.1190	0.6115	-0.0290	0.1903	-1.8055	
67	23.11	-0.06	4.9227	-8.7355	0.0708	-0.2621	-0.0250	0.1837	-1.7745	
68	23.45	-0.06	5.0679	-8.5849	-0.1093	0.5439	-0.0390	0.1761	-1.6950	
69	23.77	-0.02	5.0509	-8.5801	-0.1123	0.6741	-0.0400	0.1677	-1.6987	
70	24.10	-0.04	5.1576	-8.6885	-0.0571	0.3339	-0.0300	0.1604	-1.6846	
71	24.41	-0.06	5.2791	-8.7096	0.0486	-0.0130	-0.0140	0.1558	-1.6498	
72	24.74	-0.06	5.4178	-8.7398	-0.1167	0.2443	-0.0200	0.1456	-1.6132	
73	25.04	-0.03	5.5254	-8.7374	-0.0416	0.3812	-0.0280	0.1332	-1.5813	
74	25.36	-0.04	5.6460	-8.6602	-0.1548	0.4417	-0.0280	0.1276	-1.5339	
75	25.64	-0.06	5.7099	-8.7367	0.0141	0.1642	-0.0180	0.1266	-1.5301	
76	25.98	-0.06	5.8704	-8.6475	-0.1055	0.5236	-0.0270	0.1221	-1.4731	
77	26.26	-0.05	5.9604	-8.6485	0.0621	0.1750	-0.0070	0.1190	-1.4510	
78	26.55	-0.06	6.0832	-8.6665	-0.0076	0.2676	-0.0040	0.1114	-1.4247	
79	26.88	-0.06	6.1730	-8.6472	-0.0330	0.3252	-0.0240	0.1013	-1.4008	
80	27.19	-0.06	6.2998	-8.6907	-0.0927	0.4867	-0.0230	0.0987	-1.3795	
81	27.53	-0.05	6.4424	-8.6433	-0.0370	0.3778	-0.0190	0.0891	-1.3416	
82	27.83	-0.06	6.5476	-8.5938	-0.1079	0.4790	-0.0250	0.0852	-1.3125	
83	28.13	-0.06	6.6324	-8.6885	0.0525	0.0085	0.0160	0.0603	-1.3100	
84	28.46	-0.06	6.7801	-8.6483	-0.0976	0.3636	-0.0100	0.0649	-1.2755	
85	28.77	-0.04	6.8365	-8.5832	0.0066	0.2877	-0.0040	0.0610	-1.2555	
86	29.09	-0.03	7.0318	-8.6846	0.2031	0.0547	0.0120	0.0487	-1.2351	
87	29.39	-0.03	7.1279	-8.6682	0.3070	-0.4317	0.0100	0.0358	-1.2161	
88	29.69	0.03	7.1747	-8.6087	0.4182	0.1944	-0.0100	0.0171	-1.1999	

PAGE 2 OF 3
 SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 18 1.10 1.7 0-0 B2WOF12 0-0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	C81	XCFF1	YCFF1	CNF2	CH2	C82	XCFF2	YCFF2
1	-2.73	0.07	-0.0350	-0.0002	0.0022	0.0071	-0.0639	-0.1738	0.0020	-0.0768	-0.0115	0.4420
2	-2.58	0.07	-0.0301	0.0004	0.0025	-0.0133	-0.0821	-0.1623	0.0018	-0.0695	-0.0114	0.4281
3	-2.00	0.04	-0.0344	0.0002	0.0028	-0.0073	-0.0825	-0.1277	0.0015	-0.0551	-0.0117	0.4319
4	-1.37	0.05	-0.0247	-0.0001	0.0054	0.0061	-0.2174	-0.0841	0.0009	-0.0383	-0.0113	0.4557
5	-0.81	0.04	-0.0347	0.0001	0.0035	-0.0029	-0.1135	-0.0536	0.0034	-0.0240	-0.0084	0.4470
6	-0.27	0.04	-0.0266	0.0001	0.0030	-0.0038	-0.1142	-0.0179	0.0002	-0.0097	-0.0140	0.5399
7	0.24	0.04	-0.0256	-0.0000	0.0041	0.0026	-0.1540	0.0062	-0.0001	0.0024	-0.0161	0.3816
8	0.77	0.01	-0.0107	-0.0001	0.0091	0.0140	-0.8537	0.0343	-0.0002	0.0168	-0.0051	0.4274
9	1.25	0.05	-0.0248	-0.0003	0.0053	0.0121	-0.2152	0.0790	-0.0006	0.0317	-0.0076	0.4016
10	1.77	0.04	-0.0346	0.0	0.0031	0.0	-0.0888	0.1057	-0.0011	0.0451	-0.0104	0.4269
11	2.23	0.05	-0.0275	-0.0004	0.0043	0.0145	-0.1577	0.1377	-0.0008	0.0583	-0.0062	0.4233
12	2.71	0.03	-0.0254	-0.0007	0.0055	0.0276	-0.2180	0.1699	-0.0010	0.0715	-0.0059	0.4209
13	3.19	0.02	-0.0248	-0.0010	0.0068	0.0403	-0.2757	0.1943	-0.0014	0.0838	-0.0072	0.4315
14	3.66	0.01	-0.0252	-0.0005	0.0055	0.0218	-0.2184	0.2283	-0.0012	0.0900	-0.0055	0.4204
15	4.13	0.05	-0.0226	-0.0013	0.0060	0.0597	-0.2641	0.2609	-0.0012	0.1075	-0.0046	0.4122
16	4.57	0.03	-0.0191	-0.0017	0.0049	0.0890	-0.2584	0.2878	-0.0012	0.1159	-0.0042	0.4027
17	5.03	0.03	-0.0137	-0.0027	0.0166	0.2007	-0.7325	0.3213	-0.0013	0.1245	-0.0042	0.4029
18	5.46	-0.03	-0.0168	-0.0025	0.0071	0.1518	-0.4227	0.3560	-0.0014	0.1426	-0.0039	0.4006
19	5.92	0.01	-0.0184	-0.0021	0.0034	0.1168	-0.1831	0.3770	-0.0011	0.1524	-0.0030	0.4043
20	6.35	0.03	-0.0178	-0.0023	0.0045	0.1432	-0.2511	0.4130	-0.0012	0.1638	-0.0030	0.3966
21	6.81	0.05	-0.0232	-0.0019	0.0014	0.0840	-0.0806	0.4395	-0.0019	0.1739	-0.0043	0.3958
22	7.26	-0.01	-0.0253	-0.0024	0.0015	0.0948	-0.0581	0.4654	-0.0015	0.1834	-0.0033	0.3940
23	7.67	0.01	-0.0214	-0.0031	0.0033	0.1472	-0.1528	0.4896	-0.0015	0.1911	-0.0032	0.3904
24	8.12	0.0	-0.0245	-0.0041	0.0057	0.1644	-0.2341	0.5106	-0.0015	0.1994	-0.0029	0.3906
25	8.55	0.04	-0.0232	-0.0026	0.0031	0.1142	-0.1323	0.5456	-0.0018	0.2093	-0.0034	0.3836
26	8.96	0.06	-0.0323	-0.0023	0.0018	0.0789	-0.0569	0.5714	-0.0019	0.2174	-0.0034	0.3805
27	9.36	0.0	-0.0400	-0.0025	-0.0004	0.0637	0.0107	0.5956	-0.0015	0.2264	-0.0026	0.3801
28	9.79	-0.05	-0.0361	-0.0040	0.0030	0.1122	-0.0823	0.6109	-0.0020	0.2323	-0.0033	0.3802
29	10.17	0.02	-0.0387	-0.0025	0.0000	0.0654	-0.0001	0.6395	-0.0018	0.2404	-0.0029	0.3759
30	10.59	-0.05	-0.0407	-0.0037	0.0011	0.0909	-0.0280	0.6627	-0.0020	0.2478	-0.0030	0.3740
31	10.95	0.0	-0.0500	-0.0046	0.0001	0.0930	-0.0028	0.6740	-0.0018	0.2509	-0.0027	0.3722
32	11.34	-0.05	-0.0421	-0.0039	-0.0000	0.0526	-0.0007	0.6993	-0.0018	0.2599	-0.0026	0.3717
33	11.68	0.0	-0.0520	-0.0029	-0.0036	0.0558	0.0698	0.7170	-0.0015	0.2644	-0.0022	0.3688
34	12.06	0.01	-0.0550	-0.0038	-0.0022	0.0700	0.0405	0.7408	-0.0016	0.2716	-0.0022	0.3667
35	12.42	0.0	-0.0505	-0.0042	-0.0012	0.0841	0.0243	0.7669	-0.0020	0.2786	-0.0027	0.3633
36	12.78	-0.02	-0.0564	-0.0031	-0.0040	0.0558	0.0708	0.7824	-0.0021	0.2834	-0.0027	0.3622
37	13.13	-0.01	-0.0609	-0.0050	-0.0013	0.0821	0.0212	0.7981	-0.0020	0.2871	-0.0025	0.3598
38	13.49	-0.02	-0.0645	-0.0040	-0.0034	0.0628	0.0526	0.8230	-0.0023	0.2950	-0.0028	0.3585
39	13.86	-0.01	-0.0679	-0.0045	-0.0047	0.0670	0.0696	0.8462	-0.0028	0.3007	-0.0033	0.3553
40	14.21	0.02	-0.0721	-0.0055	-0.0040	0.0763	0.0556	0.8631	-0.0032	0.3059	-0.0038	0.3544
41	14.58	0.01	-0.0748	-0.0065	-0.0052	0.0869	0.0698	0.8777	-0.0034	0.3099	-0.0039	0.3530
42	14.90	-0.03	-0.0698	-0.0058	-0.0050	0.0838	0.0710	0.9016	-0.0034	0.3145	-0.0038	0.3489
43	15.27	-0.02	-0.0779	-0.0055	-0.0103	0.0712	0.1317	0.9199	-0.0040	0.3195	-0.0043	0.3473
44	15.60	-0.03	-0.0746	-0.0038	-0.0131	0.0516	0.1750	0.9385	-0.0041	0.3233	-0.0044	0.3445
45	15.91	0.0	-0.0763	-0.0056	-0.0105	0.0740	0.1379	0.9476	-0.0045	0.3255	-0.0048	0.3434
46	16.26	-0.01	-0.0881	-0.0090	-0.0106	0.1027	0.1198	0.9536	-0.0047	0.3263	-0.0050	0.3421

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

 PAGE 2 OF 3
 SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	18	1.10	1.7	0.0	82	0.0	0.0	0.0	0.0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.59	-0.02	-0.0909	-0.0047	-0.0180	0.0522	0.1979	0.9747	-0.0045	0.3313	-0.0046	0.3399
48	16.92	-0.01	-0.0875	-0.0065	-0.0147	0.0748	0.1675	0.9903	-0.0046	0.3349	-0.0047	0.3382
49	17.24	-0.02	-0.0883	-0.0068	-0.0122	0.0770	0.1384	1.0007	-0.0048	0.3378	-0.0048	0.3375
50	17.57	-0.07	-0.0852	-0.0036	-0.0179	0.0428	0.2100	1.0268	-0.0046	0.3435	-0.0045	0.3346
51	17.89	-0.03	-0.0897	-0.0033	-0.0195	0.0368	0.2173	1.0410	-0.0047	0.3456	-0.0045	0.3320
52	18.23	-0.03	-0.1066	-0.0081	-0.0190	0.0764	0.1784	1.0437	-0.0044	0.3474	-0.0042	0.3328
53	18.56	0.0	-0.0889	-0.0027	-0.0183	0.0304	0.2061	1.0750	-0.0044	0.3548	-0.0041	0.3301
54	18.88	-0.04	-0.1063	-0.0121	-0.0093	0.1138	0.0877	1.0751	-0.0049	0.3538	-0.0046	0.3291
55	19.22	-0.02	-0.1102	-0.0078	-0.0196	0.0712	0.1780	1.0867	-0.0047	0.3568	-0.0043	0.3283
56	19.53	-0.05	-0.0887	-0.0026	-0.0212	0.0299	0.2385	1.1213	-0.0043	0.3649	-0.0038	0.3255
57	19.87	-0.01	-0.0995	-0.0052	-0.0195	0.0523	0.1955	1.1268	-0.0042	0.3679	-0.0037	0.3265
58	20.20	-0.03	-0.0960	-0.0035	-0.0211	0.0357	0.2148	1.1395	-0.0044	0.3702	-0.0039	0.3249
59	20.55	-0.04	-0.1226	-0.0095	-0.0170	0.0779	0.1391	1.1472	-0.0047	0.3722	-0.0041	0.3244
60	20.86	-0.03	-0.1150	-0.0054	-0.0217	0.0467	0.1879	1.1624	-0.0038	0.3755	-0.0033	0.3231
61	21.21	-0.05	-0.1187	-0.0048	-0.0225	0.0409	0.1934	1.1736	-0.0040	0.3766	-0.0034	0.3209
62	21.54	-0.02	-0.1176	-0.0074	-0.0222	0.0633	0.1887	1.1814	-0.0041	0.3791	-0.0035	0.3209
63	21.84	-0.03	-0.1515	-0.0086	-0.0299	0.0568	0.1972	1.1888	-0.0036	0.3828	-0.0030	0.3220
64	22.16	-0.01	-0.2170	-0.0178	-0.0436	0.0822	0.2010	1.1775	-0.0040	0.3779	-0.0034	0.3209
65	22.45	-0.03	-0.1266	-0.0015	-0.0327	0.0122	0.2582	1.2329	-0.0030	0.3931	-0.0025	0.3189
66	22.80	-0.03	-0.1512	-0.0027	-0.0365	0.0182	0.2413	1.2271	-0.0035	0.3913	-0.0029	0.3189
67	23.11	-0.06	-0.0563	0.0096	-0.0265	-0.1714	0.4700	1.2633	-0.0038	0.4006	-0.0030	0.3171
68	23.45	-0.06	-0.1589	-0.0002	-0.0391	0.0013	0.2464	1.2429	-0.0032	0.3954	-0.0026	0.3182
69	23.77	-0.02	-0.1511	-0.0020	-0.0394	0.0132	0.2611	1.2607	-0.0031	0.3974	-0.0025	0.3152
70	24.10	-0.04	-0.1158	0.0007	-0.0372	-0.0060	0.3211	1.2580	-0.0037	0.3982	-0.0030	0.3165
71	24.41	-0.06	-0.0405	0.0065	-0.0676	-0.1703	0.1875	1.2896	-0.0040	0.4056	-0.0031	0.3145
72	24.74	-0.06	-0.0815	0.0040	-0.0185	-0.0497	0.2265	1.2831	-0.0052	0.4031	-0.0041	0.3142
73	25.04	-0.03	-0.0695	0.0049	-0.0207	-0.0705	0.2972	1.2869	-0.0043	0.4057	-0.0034	0.3153
74	25.36	-0.04	-0.1770	-0.0025	-0.0468	0.0141	0.2643	1.2704	-0.0044	0.4002	-0.0035	0.3150
75	25.64	-0.06	-0.0826	0.0043	-0.0184	-0.0520	0.2230	1.2995	-0.0057	0.4063	-0.0044	0.3142
76	25.98	-0.06	-0.0828	0.0033	-0.0191	-0.0398	0.2306	1.3033	-0.0065	0.4085	-0.0050	0.3134
77	26.26	-0.05	-0.0176	0.0034	0.0662	-0.1960	0.3543	1.3176	-0.0074	0.4128	-0.0056	0.3133
78	26.55	-0.06	-0.0765	0.0021	-0.0217	-0.0274	0.2835	1.3246	-0.0061	0.4119	-0.0046	0.3109
79	26.88	-0.06	-0.1145	0.0013	-0.0406	-0.0118	0.3550	1.3196	-0.0057	0.4092	-0.0044	0.3101
80	27.19	-0.06	-0.1162	0.0032	-0.0334	-0.0275	0.2919	1.3252	-0.0064	0.4122	-0.0048	0.3103
81	27.53	-0.05	-0.1489	0.0014	-0.0447	-0.0094	0.3003	1.3334	-0.0064	0.4136	-0.0048	0.3102
82	27.83	-0.06	-0.1404	0.0012	-0.0421	-0.0084	0.2997	1.3415	-0.0063	0.4139	-0.0047	0.3085
83	28.13	-0.06	-0.0051	-0.0002	0.0143	0.0490	-2.8040	1.3612	-0.0070	0.4205	-0.0052	0.3089
84	28.46	-0.06	-0.0684	0.0038	-0.0224	-0.0555	0.3274	1.3698	-0.0054	0.4216	-0.0040	0.3078
85	28.77	-0.04	-0.0805	0.0020	-0.0226	-0.0248	0.2810	1.3780	-0.0045	0.4232	-0.0033	0.3071
86	29.09	-0.03	-0.0198	0.0005	0.0065	-0.0252	-0.3284	1.3972	-0.0017	0.4266	-0.0012	0.3053
87	29.39	-0.03	-0.0398	0.0006	-0.0010	-0.0151	0.0242	1.3968	-0.0005	0.4257	-0.0004	0.3047
88	29.69	-0.03	-0.0088	0.0012	0.0111	-0.1420	-1.2577	1.4101	0.0017	0.4256	0.0012	0.3018

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			18	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.73	0.07	-0.0044	0.0007	-0.0033	-0.1704	0.7423	-0.2435	0.0018	-0.0548	-0.0076	0.2252
2	-2.58	0.07	0.0024	0.0007	-0.0005	0.3124	-0.2085	-0.2346	0.0016	-0.0507	-0.0068	0.2160
3	-2.00	0.04	0.0022	0.0008	0.0004	0.1863	0.1969	-0.1959	0.0016	-0.0359	-0.0082	0.1831
4	-1.37	0.05	0.0063	0.0008	0.0009	0.1349	0.1427	-0.1520	0.0012	-0.0175	-0.0079	0.1155
5	-0.81	0.04	0.0036	0.0008	0.0003	0.2361	0.0832	-0.1136	0.0006	-0.0043	-0.0057	0.0374
6	-0.27	0.04	0.0063	0.0008	0.0009	0.1349	0.1427	-0.0820	0.0004	0.0113	-0.0055	-0.1375
7	0.24	0.04	0.0105	0.0007	0.0005	0.0714	0.0475	-0.0532	0.0002	0.0226	-0.0038	-0.4243
8	0.77	0.01	0.0114	0.0011	0.0027	0.0965	0.2367	-0.0249	0.0001	0.0360	-0.0033	-1.2052
9	1.25	0.05	0.0078	0.0008	-0.0002	0.1025	-0.0258	0.0155	-0.0000	0.0520	-0.0032	3.3526
10	1.77	0.04	0.0065	0.0005	0.0002	0.0846	0.0255	0.0493	-0.0007	0.0664	-0.0142	1.3474
11	2.23	0.05	0.0078	0.0007	-0.0002	0.0961	-0.0258	0.0638	-0.0007	0.0799	-0.0084	0.9537
12	2.71	0.03	0.0048	0.0005	0.0011	0.1875	0.2290	0.1166	-0.0009	0.0954	-0.0077	0.8186
13	3.19	0.02	0.0103	0.0007	0.0021	0.0728	0.2070	0.1462	-0.0011	0.1059	-0.0078	0.7145
14	3.66	0.01	0.0089	0.0008	0.0021	0.0899	0.2321	0.1747	-0.0009	0.1186	-0.0052	0.6790
15	4.13	0.05	0.0101	0.0009	0.0025	0.0540	0.2837	0.2092	-0.0009	0.1322	-0.0043	0.6320
16	4.57	0.03	0.0089	0.0008	0.0021	0.0555	0.2321	0.2328	-0.0011	0.1415	-0.0047	0.6081
17	5.03	0.03	0.0166	0.0011	0.0060	0.0663	0.3633	0.2644	-0.0008	0.1544	-0.0030	0.5840
18	5.46	-0.03	0.0032	0.0011	0.0027	0.3437	0.8332	0.3053	-0.0009	0.1688	-0.0031	0.5529
19	5.92	0.01	0.0032	0.0011	0.0028	0.3437	0.8645	0.3249	-0.0010	0.1793	-0.0030	0.5435
20	6.35	0.03	0.0154	0.0012	0.0047	0.0779	0.3072	0.3705	-0.0009	0.1923	-0.0024	0.5189
21	6.81	0.05	0.0153	0.0009	0.0064	0.0588	0.4182	0.3909	-0.0011	0.2021	-0.0028	0.5168
22	7.26	-0.01	0.0060	0.0008	0.0034	0.1416	0.5665	0.4190	-0.0013	0.2133	-0.0032	0.5091
23	7.67	0.01	0.0248	0.0009	0.0090	0.0363	0.3614	0.4507	-0.0012	0.2241	-0.0028	0.4971
24	8.12	0.0	0.0155	0.0008	0.0055	0.0548	0.3526	0.4722	-0.0017	0.2283	-0.0036	0.4835
25	8.55	0.04	0.0165	0.0012	0.0071	0.0757	0.4302	0.5022	-0.0019	0.2419	-0.0039	0.4817
26	8.96	0.06	0.0154	0.0011	0.0052	0.0747	0.3397	0.5298	-0.0023	0.2498	-0.0044	0.4715
27	9.36	0.0	0.0156	0.0009	0.0047	0.0577	0.3012	0.5608	-0.0020	0.2605	-0.0036	0.4644
28	9.79	-0.05	0.0183	0.0008	0.0061	0.0464	0.3332	0.5743	-0.0024	0.2646	-0.0043	0.4607
29	10.17	0.02	0.0196	0.0009	0.0059	0.0485	0.3026	0.6038	-0.0022	0.2754	-0.0036	0.4561
30	10.59	-0.05	0.0168	0.0010	0.0060	0.0595	0.3570	0.6302	-0.0023	0.2845	-0.0036	0.4514
31	10.95	0.0	0.0220	0.0010	0.0083	0.0477	0.3787	0.6480	-0.0024	0.2888	-0.0038	0.4457
32	11.34	-0.05	0.0248	0.0010	0.0085	0.0403	0.3413	0.6689	-0.0021	0.2956	-0.0032	0.4419
33	11.68	0.0	0.0221	0.0008	0.0093	0.0362	0.4192	0.6887	-0.0027	0.3022	-0.0039	0.4388
34	12.06	0.01	0.0166	0.0009	0.0075	0.0572	0.4537	0.7128	-0.0027	0.3103	-0.0038	0.4353
35	12.42	0.0	0.0234	0.0008	0.0096	0.0363	0.4101	0.7366	-0.0025	0.3163	-0.0035	0.4295
36	12.78	-0.02	0.0194	0.0008	0.0082	0.0412	0.4208	0.7513	-0.0030	0.3224	-0.0041	0.4292
37	13.13	-0.01	0.0193	0.0011	0.0076	0.0596	0.3954	0.7791	-0.0030	0.3303	-0.0039	0.4239
38	13.49	-0.02	0.0235	0.0008	0.0086	0.0362	0.3673	0.8025	-0.0035	0.3363	-0.0044	0.4191
39	13.86	-0.01	0.0276	0.0007	0.0095	0.0272	0.3586	0.8224	-0.0040	0.3433	-0.0049	0.4175
40	14.21	0.02	0.0248	0.0005	0.0110	0.0222	0.4421	0.8399	-0.0043	0.3496	-0.0052	0.4162
41	14.56	0.01	0.0324	0.0007	0.0124	0.0228	0.3758	0.8689	-0.0049	0.3574	-0.0056	0.4113
42	14.90	-0.03	0.0277	0.0005	0.0098	0.0199	0.3549	0.8830	-0.0049	0.3606	-0.0056	0.4086
43	15.27	-0.02	0.0315	0.0005	0.0128	0.0159	0.4062	0.8908	-0.0054	0.3632	-0.0061	0.4077
44	15.60	-0.03	0.0353	0.0005	0.0145	0.0142	0.4210	0.9063	-0.0056	0.3666	-0.0062	0.4045
45	15.91	0.0	0.0337	0.0007	0.0150	0.0223	0.4460	0.9283	-0.0058	0.3711	-0.0063	0.3998
46	16.26	-0.01	0.0338	0.0004	0.0150	0.0133	0.4427	0.9482	-0.0060	0.3773	-0.0064	0.3978

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	ALPHA	BETA	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		18	1.10	1.7	0.0 B2HOF12	0.0	0	0	0	0	FIXED	
PLINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.59	-0.02	0.0419	0.0000	0.0184	0.0012	0.4382	0.9549	-0.0065	0.3782	-0.0069	0.3960
48	16.92	0.01	0.0458	0.0001	0.0203	0.0022	0.4424	0.9776	-0.0059	0.3843	-0.0060	0.3931
49	17.24	-0.02	0.0363	0.0006	0.0155	0.0179	0.4319	0.9927	-0.0060	0.3866	-0.0060	0.3894
50	17.57	-0.07	0.0417	0.0007	0.0162	0.0180	0.3864	1.0053	-0.0058	0.3906	-0.0058	0.3885
51	17.89	-0.03	0.0416	0.0005	0.0184	0.0132	0.4414	1.0115	-0.0061	0.3933	-0.0060	0.3889
52	18.23	-0.03	0.0377	0.0005	0.0164	0.0146	0.4340	1.0438	-0.0058	0.4009	-0.0056	0.3841
53	18.56	0.0	0.0319	0.0010	0.0161	0.0313	0.5056	1.0428	-0.0055	0.4011	-0.0053	0.3846
54	18.88	-0.04	0.0334	0.0011	0.0150	0.0329	0.4500	1.0890	-0.0046	0.4114	-0.0042	0.3777
55	19.22	-0.02	0.0387	0.0012	0.0170	0.0310	0.4392	1.0805	-0.0058	0.4118	-0.0054	0.3811
56	19.53	-0.05	0.0413	0.0010	0.0192	0.0242	0.4640	1.0979	-0.0045	0.4134	-0.0041	0.3766
57	19.87	-0.01	0.0348	0.0008	0.0163	0.0244	0.4683	1.1111	-0.0042	0.4189	-0.0038	0.3770
58	20.20	-0.03	0.0403	0.0004	0.0190	0.0099	0.4722	1.1184	-0.0046	0.4205	-0.0041	0.3759
59	20.55	-0.04	0.0345	0.0010	0.0183	0.0304	0.5303	1.1547	-0.0040	0.4287	-0.0035	0.3712
60	20.86	-0.03	0.0347	0.0012	0.0162	0.0346	0.4658	1.1606	-0.0032	0.4278	-0.0028	0.3686
61	21.21	-0.05	0.0350	0.0009	0.0161	0.0257	0.4569	1.1613	-0.0040	0.4308	-0.0035	0.3710
62	21.54	-0.02	0.0414	0.0009	0.0200	0.0229	0.4830	1.1857	-0.0033	0.4359	-0.0028	0.3676
63	21.84	-0.03	0.0414	0.0011	0.0196	0.0278	0.4588	1.2027	-0.0042	0.4411	-0.0035	0.3668
64	22.16	-0.01	0.0349	0.0007	0.0173	0.0215	0.4965	1.2345	-0.0042	0.4476	-0.0034	0.3626
65	22.45	-0.03	0.0423	0.0012	0.0222	0.0284	0.5247	1.2145	-0.0044	0.4427	-0.0037	0.3645
66	22.80	-0.03	0.0400	0.0008	0.0192	0.0212	0.4807	1.2101	-0.0055	0.4432	-0.0046	0.3663
67	23.11	-0.06	0.0536	0.0018	0.0257	0.0345	0.4787	1.2044	-0.0046	0.4390	-0.0039	0.3645
68	23.45	-0.06	0.0415	0.0018	0.0220	0.0434	0.5308	1.2253	-0.0050	0.4457	-0.0041	0.3637
69	23.77	-0.02	0.0456	0.0015	0.0229	0.0340	0.5021	1.2402	-0.0045	0.4491	-0.0037	0.3622
70	24.10	-0.04	0.0496	0.0014	0.0243	0.0292	0.4905	1.2389	-0.0045	0.4472	-0.0037	0.3610
71	24.41	-0.06	0.0411	0.0021	0.0281	0.0352	0.4592	1.2389	-0.0034	0.4458	-0.0028	0.3598
72	24.74	-0.06	0.0441	0.0014	0.0250	0.0329	0.5068	1.2396	-0.0051	0.4486	-0.0042	0.3619
73	25.04	-0.03	0.0471	0.0013	0.0237	0.0276	0.5031	1.2458	-0.0046	0.4504	-0.0037	0.3615
74	25.36	-0.04	0.0470	0.0013	0.0238	0.0277	0.5056	1.2715	-0.0039	0.4545	-0.0031	0.3574
75	25.64	-0.06	0.0443	0.0012	0.0251	0.0271	0.5657	1.2658	-0.0055	0.4547	-0.0043	0.3592
76	25.98	-0.06	0.0495	0.0013	0.0268	0.0263	0.5413	1.2720	-0.0056	0.4564	-0.0046	0.3588
77	26.26	-0.05	0.0530	0.0018	0.0288	0.0349	0.5426	1.2728	-0.0051	0.4553	-0.0040	0.3577
78	26.55	-0.06	0.0456	0.0014	0.0242	0.0318	0.5306	1.2980	-0.0049	0.4609	-0.0038	0.3551
79	26.86	-0.06	0.0547	0.0014	0.0290	0.0256	0.5307	1.3088	-0.0038	0.4619	-0.0029	0.3529
80	27.19	-0.06	0.0496	0.0012	0.0257	0.0252	0.5187	1.3118	-0.0058	0.4640	-0.0044	0.3537
81	27.53	-0.05	0.0478	0.0019	0.0255	0.0397	0.5341	1.3142	-0.0023	0.4623	-0.0017	0.3518
82	27.83	-0.06	0.0491	0.0018	0.0268	0.0367	0.5450	1.3220	-0.0027	0.4637	-0.0021	0.3508
83	28.13	-0.06	0.0490	0.0019	0.0282	0.0388	0.5761	1.3244	-0.0058	0.4678	-0.0044	0.3532
84	28.46	-0.06	0.0479	0.0016	0.0265	0.0334	0.5608	1.3384	-0.0039	0.4687	-0.0030	0.3502
85	28.77	-0.04	0.0442	0.0015	0.0250	0.0339	0.5662	1.3236	0.0042	0.4596	0.0032	0.3473
86	29.09	-0.03	0.0454	0.0016	0.0264	0.0363	0.5821	1.3303	0.0067	0.4575	0.0050	0.3439
87	29.39	-0.03	0.0535	0.0016	0.0282	0.0308	0.5276	1.3291	0.0084	0.4565	0.0064	0.3434
88	29.69	0.03	0.0535	0.0018	0.0282	0.0346	0.5276	1.3271	0.0094	0.4563	0.0071	0.3438

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	NAME	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	19	0.85	1.7	0.0	0.24	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	2.99	5.00	0.4342	-0.8889	-0.7973	1.9381	0.0350	0.1880	-2.0470	
2	2.99	4.65	0.4183	-0.8826	-0.7270	1.7607	0.0310	0.1854	-2.1098	
3	2.99	3.89	0.4545	-0.9443	-0.6484	1.5587	0.0330	0.1811	-2.0549	
4	2.99	3.17	0.4569	-0.9507	-0.4746	1.2074	0.0300	0.1795	-2.0805	
5	2.99	2.39	0.4366	-0.9133	-0.4693	1.0210	0.0320	0.1832	-2.0915	
6	2.99	1.95	0.4592	-0.9899	-0.3017	0.6583	0.0330	0.1882	-2.1555	
7	2.98	0.88	0.4571	-1.0199	-0.1545	0.3812	0.0280	0.1898	-2.2311	
8	2.98	0.12	0.4750	-1.0500	-0.0675	0.1325	0.0300	0.1894	-2.2104	
9	2.98	-0.66	0.4558	-0.9981	0.0571	-0.1009	0.0310	0.1891	-2.1896	
10	2.98	-1.44	0.4307	-0.9766	0.1590	-0.3576	0.0310	0.1860	-2.2658	
11	2.99	-2.24	0.4455	-0.9647	0.3088	-0.6242	0.0300	0.1774	-2.1653	
12	2.99	-3.05	0.4506	-0.9259	0.3942	-0.9129	0.0350	0.1800	-2.0545	
13	2.99	-3.83	0.4312	-0.9027	0.5262	-1.2517	0.0300	0.1866	-2.0933	
14	2.99	-4.65	0.4452	-0.9053	0.6449	-1.5418	0.0320	0.1963	-2.0333	
15	2.99	-5.39	0.4345	-0.9053	0.8552	-2.0152	0.0300	0.1913	-2.0834	
16	2.99	-6.20	0.4643	-0.9690	0.9154	-2.2774	0.0280	0.1926	-2.0869	
17	2.99	-6.96	0.4335	-0.8819	1.2234	-2.8684	0.0230	0.1797	-2.0342	
18	2.99	-7.78	0.4240	-0.8546	1.3074	-3.2312	0.0180	0.1878	-2.0154	
19	3.00	-8.55	0.4474	-0.8224	1.5574	-3.6202	0.0170	0.1738	-1.8380	
20	3.00	-9.32	0.4138	-0.7634	1.6070	-3.9206	0.0160	0.1808	-1.8446	
21	3.00	-10.14	0.4286	-0.7671	1.7462	-4.2574	0.0170	0.1797	-1.7895	
22	3.00	-10.86	0.4144	-0.7432	1.9528	-4.6807	0.0170	0.1751	-1.7932	
23	3.00	-11.64	0.3809	-0.5992	2.1074	-5.1168	0.0150	0.1788	-1.5733	
24	3.00	-12.38	0.3826	-0.5186	2.2917	-5.4441	0.0120	0.1626	-1.4303	
25	3.01	-13.16	0.3252	-0.3652	2.4496	-5.8034	0.0120	0.1582	-1.1232	
26	3.01	-14.03	0.3338	-0.3463	2.5943	-6.1436	0.0290	0.1686	-1.0375	
27	3.01	-14.82	0.3726	-0.4376	2.7374	-6.1611	0.0720	0.1625	-1.1746	
28	3.01	-15.63	0.3543	-0.3670	2.8426	-6.4534	0.0870	0.1631	-1.0215	
29	3.01	-16.43	0.3446	-0.3034	3.0758	-6.8108	0.0950	0.1532	-0.8806	
30	3.01	-17.22	0.3970	-0.3268	3.2243	-7.0897	0.1190	0.1611	-0.9418	
31	3.02	-18.13	0.3532	-0.2854	3.3704	-7.2882	0.1460	0.1511	-0.8083	
32	3.02	-18.93	0.3672	-0.2960	3.5961	-7.6662	0.1640	0.1564	-0.8063	
33	3.02	-19.75	0.3631	-0.3113	3.7347	-7.7463	0.1720	0.1477	-0.8574	
34	3.02	-20.24	0.4303	-0.4815	3.6645	-7.5960	0.1940	0.1444	-1.1189	
35	3.01	-20.26	0.4098	-0.4368	3.6938	-7.3061	0.2340	0.1561	-1.0658	
36	3.02	-20.27	0.4654	-0.5536	3.6890	-7.5043	0.2350	0.1389	-1.1895	
37	3.02	-20.27	0.4167	-0.4185	3.7620	-7.4175	0.2010	0.1388	-1.0041	
38	3.01	-20.27	0.4347	-0.5247	3.6700	-7.4557	0.1980	0.1274	-1.2068	
39	3.02	-20.27	0.4169	-0.3564	3.8116	-7.8349	0.1790	0.1023	-0.8672	
40	3.02	-19.45	0.3678	-0.3169	3.7108	-7.5638	0.1710	0.1129	-0.8617	
41	3.02	-18.64	0.3806	-0.2988	3.6925	-7.6982	0.1510	0.0855	-0.7852	
42	3.01	-17.77	0.3542	-0.3618	3.5483	-7.6183	0.1540	0.0814	-1.0075	
43	3.01	-16.92	0.3711	-0.3485	3.3552	-7.2499	0.1360	0.0971	-0.9392	
44	3.01	-16.14	0.3629	-0.3440	3.1691	-6.9324	0.1140	0.0871	-0.9481	
45	3.01	-15.31	0.3498	-0.3517	2.9714	-6.5727	0.0840	0.0881	-1.0391	
46	3.01	-14.51	0.3354	-0.3775	2.8154	-6.3273	0.0740	0.0996	-1.1257	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RX10-6										
6 19 0-85 1-7 0-0 BZWDF12 0-0 0 0 0 0 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	3.01	-13.65	0.3766	-0.4942	2.6888	-6.0331	0.0800	0.0978	-1.3124	
48	3.01	-12.85	0.3567	-0.4063	2.5144	-5.5978	0.0270	0.1107	-1.1393	
49	3.01	-12.13	0.3573	-0.4452	2.4596	-5.7541	0.0196	0.1072	-1.2461	
50	3.01	-11.58	0.3729	-0.4610	2.3145	-5.4950	0.0190	0.1078	-1.2364	
51	3.00	-10.78	0.3835	-0.5950	2.0974	-5.0681	0.0200	0.1194	-1.5512	
52	3.00	-10.04	0.4085	-0.6840	1.9280	-4.6260	0.0180	0.1133	-1.6741	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6			19	0.85	1.7	0.0	B2MDF12	0.0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YCPF1	CNF2	CH2	CB2	XC PF2	YCPF2
1	2.99	5.00	-0.3218	-0.0055	-0.0982	0.0171	0.3053	0.1844	0.0053	0.0799	0.0287	0.4335
2	2.99	4.65	-0.3064	-0.0047	-0.0925	0.0153	0.3019	0.1794	0.0054	0.0793	0.0301	0.4419
3	2.99	3.69	-0.2699	-0.0035	-0.0799	0.0132	0.2962	0.1790	0.0060	0.0806	0.0335	0.4505
4	2.99	3.17	-0.2231	-0.0022	-0.0668	0.0099	0.2996	0.1828	0.0055	0.0793	0.0304	0.4339
5	2.99	2.39	-0.1831	-0.0007	-0.0518	0.0038	0.2830	0.1771	0.0056	0.0753	0.0327	0.4453
6	2.99	1.65	-0.1348	-0.0001	-0.0316	0.0007	0.2345	0.1709	0.0051	0.0728	0.0301	0.4263
7	2.98	0.88	-0.1012	0.0001	-0.0165	-0.0015	0.1633	0.1681	0.0050	0.0701	0.0300	0.4171
8	2.98	0.12	-0.0618	-0.0001	-0.0010	0.0016	0.0161	0.1677	0.0052	0.0720	0.0310	0.4292
9	2.98	-0.66	-0.0210	-0.0001	0.0168	0.0071	-0.8001	0.1551	0.0045	0.0685	0.0293	0.4415
10	2.98	-1.44	0.0236	0.0001	0.0321	0.0042	1.3586	0.1421	0.0039	0.0656	0.0274	0.4620
11	2.99	-2.24	0.0523	0.0006	0.0456	0.0115	0.8724	0.1413	0.0037	0.0617	0.0262	0.4365
12	2.99	-3.05	0.1080	0.0022	0.0675	0.0204	0.6249	0.1299	0.0029	0.0602	0.0223	0.4633
13	2.99	-3.83	0.1436	0.0037	0.0803	0.0258	0.5595	0.1145	0.0011	0.0544	0.0100	0.4756
14	2.99	-4.65	0.1982	0.0051	0.0977	0.0257	0.4932	0.1145	-0.0003	0.0554	-0.0031	0.4843
15	2.99	-5.39	0.2458	0.0063	0.1152	0.0256	0.4687	0.1085	-0.0031	0.0540	-0.0290	0.4982
16	2.99	-6.20	0.2972	0.0072	0.1355	0.0242	0.4573	0.1071	-0.0062	0.0540	-0.0579	0.5097
17	2.99	-6.96	0.3571	0.0080	0.1565	0.0225	0.4393	0.0961	-0.0094	0.0525	-0.0976	0.5465
18	2.99	-7.78	0.4048	0.0093	0.1706	0.0230	0.4214	0.0885	-0.0123	0.0498	-0.1395	0.5626
19	3.00	-8.55	0.4549	0.0109	0.1864	0.0241	0.4097	0.0808	-0.0170	0.0495	-0.2104	0.6129
20	3.00	-9.32	0.4945	0.0129	0.1989	0.0262	0.4022	0.0630	-0.0215	0.0480	-0.3412	0.7618
21	3.00	-10.14	0.5263	0.0133	0.2125	0.0253	0.4037	0.0622	-0.0252	0.0465	-0.4059	0.7480
22	3.00	-10.86	0.5702	0.0149	0.2225	0.0262	0.3902	0.0475	-0.0289	0.0454	-0.6094	0.9564
23	3.00	-11.64	0.6205	0.0174	0.2370	0.0281	0.3820	0.0206	-0.0338	0.0389	-1.6429	1.8866
24	3.00	-12.38	0.6534	0.0205	0.2436	0.0314	0.3719	-0.0002	-0.0369	0.0343	184.4670	-171.6668
25	3.01	-13.16	0.7041	0.0226	0.2510	0.0321	0.3565	-0.0093	-0.0400	0.0308	4.3057	-3.3119
26	3.01	-14.03	0.7462	0.0261	0.2628	0.0350	0.3522	-0.0475	-0.0411	0.0177	0.8662	-0.3720
27	3.01	-14.82	0.7820	0.0276	0.2686	0.0353	0.3434	-0.0328	-0.0451	0.0236	1.3748	-0.7186
28	3.01	-15.63	0.8278	0.0299	0.2756	0.0362	0.3329	-0.0573	-0.0449	0.0110	0.7635	-0.1921
29	3.01	-16.43	0.8659	0.0313	0.2847	0.0361	0.3286	-0.0705	-0.0453	0.0082	0.6424	-0.1164
30	3.01	-17.22	0.9187	0.0316	0.2980	0.0344	0.3244	-0.0865	-0.0457	0.0029	0.5282	-0.0333
31	3.02	-18.13	0.9541	0.0328	0.3123	0.0344	0.3273	-0.1026	-0.0468	-0.0010	0.4561	0.0096
32	3.02	-18.93	1.0023	0.0356	0.3220	0.0356	0.3212	-0.1257	-0.0414	-0.0160	0.3297	0.1272
33	3.02	-19.75	1.0121	0.0420	0.3145	0.0415	0.3107	-0.1241	-0.0320	-0.0283	0.2578	0.2285
34	3.02	-20.24	1.0136	0.0416	0.3196	0.0411	0.3153	-0.0955	-0.0318	-0.0116	0.3334	0.1217
35	3.01	-20.26	1.0076	0.0412	0.3191	0.0409	0.3166	-0.0884	-0.0362	-0.0034	0.4094	0.0380
36	3.02	-20.27	1.0253	0.0405	0.3209	0.0395	0.3129	-0.0803	-0.0338	-0.0029	0.4215	0.0356
37	3.02	-20.27	1.0141	0.0413	0.3215	0.0407	0.3170	-0.0941	-0.0322	-0.0123	0.3421	0.1302
38	3.01	-20.27	1.0144	0.0419	0.3187	0.0413	0.3142	-0.0790	-0.0302	-0.0114	0.3822	0.1446
39	3.02	-20.27	1.0346	0.0414	0.3250	0.0400	0.3141	-0.1095	-0.0293	-0.0224	0.2680	0.2044
40	3.02	-19.45	1.0008	0.0417	0.3175	0.0417	0.3172	-0.1050	-0.0354	-0.0156	0.3376	0.1485
41	3.02	-18.64	0.9689	0.0426	0.3089	0.0431	0.3124	-0.1355	-0.0315	-0.0344	0.2324	0.2579
42	3.01	-17.77	0.9909	0.0355	0.3206	0.0359	0.3235	-0.1145	-0.0394	-0.0173	0.3440	0.1516
43	3.01	-16.92	0.9523	0.0321	0.3116	0.0337	0.3272	-0.0880	-0.0448	-0.0017	0.5090	0.0196
44	3.01	-16.14	0.9065	0.0324	0.2954	0.0357	0.3258	-0.0879	-0.0424	-0.0035	0.4823	0.0397
45	3.01	-15.31	0.8451	0.0305	0.2808	0.0361	0.3323	-0.0580	-0.0460	0.0111	0.7930	-0.1909
46	3.01	-14.51	0.8130	0.0296	0.2727	0.0364	0.3354	-0.0409	-0.0466	0.0202	1.1392	-0.4932

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 19 0.85 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	3.01	-13.65	0.7789	0.0277	0.2669	0.0356	0.3427	-0.0357	-0.0431	0.0183	1.2085	-0.5127
48	3.01	-12.85	0.7363	0.0243	0.2577	0.0331	0.3501	-0.0197	-0.0408	0.0230	2.0707	-1.1693
49	3.01	-12.13	0.7018	0.0221	0.2537	0.0316	0.3616	-0.0133	-0.0389	0.0245	2.9281	-1.8397
50	3.01	-11.58	0.6619	0.0204	0.2437	0.0308	0.3683	0.0055	-0.0365	0.0320	-6.6352	5.8241
51	3.00	-10.78	0.6175	0.0180	0.2346	0.0291	0.3798	0.0166	-0.0342	0.0340	-1.6384	1.8278
52	3.00	-10.04	0.5703	0.0157	0.2203	0.0276	0.3863	0.0375	-0.0304	0.0399	-0.8119	1.0839

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH KX10-6 PHI CUNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6	19	0.85	1.7	0.0	0.82	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	LNFX	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	2.99	5.00	-0.3336	-0.0102	-0.1313	0.0306	0.3734	0.0352	0.0031	0.0841	0.0028	2.3900
2	2.99	4.65	-0.3037	-0.0087	-0.1210	0.0286	0.3984	0.0367	0.0011	0.0835	0.0313	2.2760
3	2.99	3.89	-0.2706	-0.0071	-0.1081	0.0262	0.3997	0.0436	0.0025	0.0867	0.0573	1.9892
4	2.99	3.17	-0.2100	-0.0049	-0.0901	0.0233	0.4289	0.0506	0.0040	0.0881	0.0790	1.7423
5	2.99	2.39	-0.1583	-0.0030	-0.0713	0.0193	0.4507	0.0584	0.0046	0.0910	0.0788	1.5592
6	2.99	1.65	-0.1028	-0.0012	-0.0507	0.0122	0.4737	0.0605	0.0048	0.0913	0.0802	1.5101
7	2.98	0.88	-0.0471	-0.0002	-0.0212	0.0042	0.5774	0.0732	0.0052	0.0956	0.0710	1.3059
8	2.98	0.12	-0.0101	0.0007	-0.0123	-0.0742	1.2144	0.0827	0.0057	0.0960	0.0695	1.1615
9	2.98	-0.60	0.0437	0.0015	0.0071	0.0343	0.1616	0.0840	0.0053	0.0972	0.0631	1.1570
10	2.98	-1.44	0.0809	0.0029	0.0261	0.0365	0.3221	0.0731	0.0050	0.0954	0.0691	1.3059
11	2.99	-2.24	0.1268	0.0042	0.0456	0.0335	0.3600	0.0900	0.0059	0.0984	0.0661	1.0932
12	2.99	-3.05	0.1761	0.0058	0.0654	0.0332	0.3713	0.0790	0.0055	0.0975	0.0702	1.2345
13	2.99	-3.83	0.2422	0.0084	0.0912	0.0347	0.3766	0.0844	0.0055	0.0992	0.0657	1.1756
14	2.99	-4.65	0.2866	0.0100	0.1084	0.0350	0.3782	0.0865	0.0058	0.1008	0.0676	1.1656
15	2.99	-5.39	0.3478	0.0124	0.1286	0.0358	0.3697	0.0847	0.0058	0.1019	0.0691	1.2033
16	2.99	-6.20	0.4020	0.0149	0.1496	0.0372	0.3720	0.0856	0.0065	0.1021	0.0765	1.1930
17	2.99	-6.96	0.4760	0.0157	0.1751	0.0331	0.3679	0.0793	0.0058	0.1004	0.0731	1.2664
18	2.99	-7.78	0.5354	0.0171	0.1972	0.0320	0.3683	0.0808	0.0056	0.0995	0.0693	1.2317
19	3.00	-8.55	0.5861	0.0200	0.2155	0.0342	0.3677	0.0798	0.0062	0.0997	0.0777	1.2493
20	3.00	-9.32	0.6404	0.0236	0.2302	0.0348	0.3594	0.0691	0.0061	0.0967	0.0883	1.3990
21	3.00	-10.14	0.7023	0.0258	0.2471	0.0367	0.3519	0.0868	0.0062	0.1036	0.0720	1.1938
22	3.00	-10.86	0.7479	0.0286	0.2614	0.0382	0.3495	0.0870	0.0064	0.1047	0.0736	1.2033
23	3.00	-11.64	0.8158	0.0304	0.2796	0.0373	0.3428	0.0814	0.0061	0.1021	0.0749	1.2546
24	3.00	-12.38	0.8741	0.0320	0.2941	0.0367	0.3364	0.0752	0.0068	0.1003	0.0904	1.3345
25	3.01	-13.16	0.9140	0.0341	0.3055	0.0373	0.3342	0.0638	0.0061	0.0943	0.0964	1.4790
26	3.01	-14.03	0.9682	0.0374	0.3173	0.0386	0.3277	0.0680	0.0065	0.0984	0.0956	1.4479
27	3.01	-14.82	0.9220	0.0503	0.2915	0.0546	0.3162	0.0753	0.0066	0.0964	0.0883	1.2801
28	3.01	-15.63	0.9628	0.0484	0.2982	0.0503	0.3097	0.0663	0.0066	0.0969	0.1003	1.4614
29	3.01	-16.43	0.9977	0.0500	0.3035	0.0501	0.3042	0.0734	0.0065	0.0978	0.0892	1.3332
30	3.01	-17.22	1.0214	0.0532	0.3056	0.0521	0.2992	0.0719	0.0067	0.0966	0.0932	1.3443
31	3.02	-18.13	1.0275	0.0573	0.2993	0.0557	0.2913	0.0645	0.0064	0.0946	0.1000	1.4665
32	3.02	-18.93	1.0596	0.0553	0.3094	0.0522	0.2920	0.0683	0.0065	0.0955	0.0952	1.3991
33	3.02	-19.75	1.1048	0.0540	0.3150	0.0489	0.2852	0.0597	0.0067	0.0936	0.1130	1.5677
34	3.02	-20.24	0.9791	0.0464	0.2804	0.0474	0.2863	0.0769	0.0076	0.0969	0.0988	1.2604
35	3.01	-20.26	0.9552	0.0268	0.2710	0.0281	0.2837	0.0775	0.0066	0.0949	0.0851	1.2893
36	3.02	-20.27	0.9589	0.0230	0.2811	0.0240	0.2932	0.0750	0.0074	0.0956	0.0993	1.2745
37	3.02	-20.27	0.9633	0.0224	0.2863	0.0232	0.2972	0.0660	0.0072	0.0956	0.1098	1.4484
38	3.01	-20.27	0.9793	0.0216	0.2972	0.0221	0.3035	0.0710	0.0069	0.0989	0.0979	1.3938
39	3.02	-20.27	0.9991	0.0214	0.3152	0.0214	0.3155	0.0513	0.0069	0.0904	0.1345	1.7621
40	3.02	-19.45	0.9650	0.0233	0.3058	0.0242	0.3168	0.0588	0.0071	0.0917	0.1207	1.5594
41	3.02	-18.64	1.0320	0.0566	0.3285	0.0548	0.3183	0.0692	0.0070	0.0973	0.1011	1.4069
42	3.01	-17.77	0.9945	0.0569	0.3195	0.0572	0.3217	0.0626	0.0073	0.0954	0.1174	1.5249
43	3.01	-16.92	0.9655	0.0572	0.3130	0.0592	0.3242	0.0684	0.0063	0.0962	0.0921	1.4063
44	3.01	-16.14	0.9466	0.0533	0.3130	0.0563	0.3307	0.0636	0.0068	0.0959	0.1069	1.5077
45	3.01	-15.31	0.9242	0.0522	0.3114	0.0565	0.3369	0.0757	0.0064	0.0995	0.0845	1.3147
46	3.01	-14.51	0.8912	0.0519	0.3046	0.0583	0.3417	0.0597	0.0065	0.0972	0.1097	1.6280

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDL)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 19 0.85 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.01	-13.65	0.8433	0.0531	0.2966	0.0630	0.3517	0.0707	0.0067	0.0980	0.0947	1.3870
48	3.01	-12.85	0.8879	0.0386	0.3244	0.0435	0.3653	0.0781	0.0070	0.1020	0.0496	1.3063
49	3.01	-12.13	0.8448	0.0348	0.3152	0.0412	0.3731	0.0613	0.0065	0.0995	0.1060	1.6236
50	3.01	-11.58	0.8056	0.0342	0.3028	0.0425	0.3759	0.0773	0.0064	0.0994	0.0828	1.2866
51	3.00	-10.78	0.7544	0.0332	0.2875	0.0440	0.3811	0.0761	0.0069	0.1032	0.0913	1.3569
52	3.00	-10.04	0.6843	0.0310	0.2686	0.0454	0.3925	0.0744	0.0069	0.1027	0.0935	1.3830

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	20	0.85	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	5.99	4.97	0.9478	-2.2118	-0.6459	1.6098	0.0270	0.1877	-2.3336		
2	5.98	4.58	0.9565	-2.2639	-0.7348	1.6546	0.0250	0.1834	-2.3670		
3	5.98	3.89	0.9432	-2.2103	-0.5902	1.4452	0.0240	0.1873	-2.3435		
4	5.98	3.13	0.9663	-2.3027	-0.4644	1.1062	0.0250	0.1873	-2.3830		
5	5.99	2.38	0.9706	-2.2507	-0.4228	0.8919	0.0230	0.1810	-2.3189		
6	5.98	1.59	0.9432	-2.2643	-0.2759	0.6332	0.0220	0.1848	-2.4007		
7	5.98	0.86	0.9914	-2.3718	-0.2121	0.3989	0.0260	0.1884	-2.3924		
8	5.98	0.09	0.9741	-2.3290	-0.0443	0.1040	0.0300	0.1929	-2.3916		
9	5.99	-0.66	0.9651	-2.2540	0.1005	-0.1652	0.0350	0.1873	-2.3356		
10	5.98	-1.48	0.9744	-2.3260	0.1691	-0.3547	0.0390	0.1875	-2.3872		
11	5.99	-2.27	0.9626	-2.2495	0.2646	-0.5624	0.0410	0.1809	-2.3369		
12	5.99	-3.10	0.9651	-2.2540	0.4253	-0.8920	0.0350	0.1852	-2.3356		
13	5.99	-3.89	0.9582	-2.1833	0.5509	-1.1712	0.0380	0.1779	-2.2786		
14	5.99	-4.70	0.9491	-2.1766	0.6826	-1.4746	0.0370	0.1865	-2.2934		
15	5.99	-5.40	0.9419	-2.1415	0.8076	-1.8295	0.0350	0.1875	-2.2737		
16	5.99	-6.24	0.9515	-2.1180	0.9361	-2.2604	0.0310	0.1846	-2.2260		
17	5.99	-7.01	0.9245	-2.0372	1.0861	-2.5873	0.0290	0.1902	-2.2036		
18	6.00	-7.77	0.9029	-1.8990	1.2789	-3.0043	0.0220	0.1773	-2.1032		
19	6.00	-8.59	0.9046	-1.9103	1.4100	-3.3558	0.0190	0.1755	-2.1118		
20	6.00	-9.34	0.8894	-1.8131	1.6289	-3.7532	0.0140	0.1713	-2.0386		
21	6.00	-10.17	0.8861	-1.7854	1.7267	-4.0801	0.0110	0.1676	-2.0150		
22	6.01	-10.87	0.8609	-1.6672	1.9250	-4.5117	0.0160	0.1672	-1.9366		
23	6.01	-11.65	0.8136	-1.4510	2.1262	-4.8915	0.0090	0.1598	-1.7834		
24	6.01	-12.43	0.8267	-1.4483	2.2703	-5.2641	0.0170	0.1590	-1.7520		
25	6.02	-14.04	0.8498	-1.3747	2.5413	-5.6485	0.0790	0.1651	-1.6177		
26	6.03	-14.85	0.7868	-1.1555	2.7364	-5.9487	0.0770	0.1602	-1.4686		
27	6.02	-15.67	0.7781	-1.1563	2.9039	-6.2812	0.1040	0.1600	-1.4861		
28	6.03	-16.47	0.7740	-0.9856	3.0082	-6.6072	0.1470	0.1560	-1.2734		
29	6.03	-17.31	0.7548	-1.0187	3.1851	-6.8008	0.1800	0.1551	-1.3497		
30	6.02	-18.17	0.8201	-1.2681	3.2157	-6.7737	0.2490	0.1753	-1.5463		
31	6.02	-19.04	0.8839	-1.5264	3.2669	-6.6194	0.3180	0.1977	-1.7269		
32	6.00	-19.77	0.9593	-1.9069	3.2877	-6.3515	0.3710	0.2267	-1.9879		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH			XX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			20	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YLPF1	CNF2	CH2	CB2	XCPF2	YLPF2
1	5.99	4.97	-0.2063	0.0036	-0.0828	-0.0157	0.3111	0.4058	0.0135	0.1553	0.0333	0.3027
2	5.98	4.98	-0.2613	0.0038	-0.0806	-0.0147	0.3083	0.4090	0.0134	0.1562	0.0329	0.3819
3	5.98	3.89	-0.2277	0.0051	-0.0703	-0.0224	0.3086	0.4107	0.0130	0.1579	0.0318	0.3843
4	5.98	3.13	-0.1882	0.0061	-0.0561	-0.0324	0.2981	0.4041	0.0132	0.1569	0.0327	0.3881
5	5.99	2.38	-0.1630	0.0061	-0.0449	-0.0377	0.2755	0.3933	0.0131	0.1518	0.0334	0.3858
6	5.98	1.59	-0.1312	0.0053	-0.0287	-0.0408	0.2189	0.3822	0.0121	0.1470	0.0316	0.3845
7	5.98	0.86	-0.1054	0.0027	-0.0169	-0.0256	0.1605	0.3726	0.0122	0.1451	0.0327	0.3893
8	5.98	0.09	-0.0571	-0.0008	0.0056	0.0149	-0.0976	0.3670	0.0116	0.1396	0.0316	0.3803
9	5.99	-0.66	-0.0263	-0.0040	0.0252	0.1521	-0.8835	0.3464	0.0108	0.1326	0.0313	0.3824
10	5.98	-1.48	-0.0022	-0.0063	0.0372	2.8631	-16.8340	0.3364	0.0101	0.1319	0.0300	0.3921
11	5.99	-2.27	0.0229	-0.0067	0.0529	-0.2947	2.3114	0.3176	0.0095	0.1244	0.0299	0.3918
12	5.99	-3.10	0.0581	-0.0064	0.0646	-0.1110	1.1129	0.3051	0.0085	0.1197	0.0280	0.3922
13	5.99	-3.89	0.0934	-0.0050	0.0764	-0.0535	0.8182	0.2876	0.0075	0.1144	0.0261	0.3979
14	5.99	-4.70	0.1370	-0.0037	0.0908	-0.0274	0.6631	0.2780	0.0055	0.1110	0.0200	0.3994
15	5.99	-5.40	0.1917	-0.0022	0.1082	-0.0117	0.5643	0.2693	0.0019	0.1066	0.0071	0.3967
16	5.99	-6.24	0.2282	-0.0017	0.1248	-0.0074	0.5471	0.2549	-0.0014	0.1038	-0.0057	0.4074
17	5.99	-7.01	0.2793	-0.0002	0.1426	-0.0009	0.5104	0.2376	-0.0058	0.0999	-0.0244	0.4203
18	6.00	-7.77	0.3304	0.0015	0.1551	0.0047	0.4694	0.2224	-0.0095	0.0950	-0.0429	0.4272
19	6.00	-8.59	0.3637	0.0034	0.1648	0.0095	0.4531	0.2084	-0.0133	0.0910	-0.0638	0.4369
20	6.00	-9.34	0.4006	0.0056	0.1752	0.0141	0.4373	0.1894	-0.0174	0.0870	-0.0921	0.4594
21	6.00	-10.17	0.4556	0.0080	0.1882	0.0177	0.4131	0.1770	-0.0217	0.0840	-0.1229	0.4745
22	6.01	-10.87	0.5021	0.0102	0.1994	0.0204	0.3971	0.1571	-0.0266	0.0763	-0.1696	0.4987
23	6.01	-11.65	0.5404	0.0134	0.2105	0.0249	0.3902	0.1404	-0.0305	0.0728	-0.2176	0.5184
24	6.01	-12.43	0.5699	0.0146	0.2190	0.0256	0.3843	0.1093	-0.0341	0.0678	-0.3124	0.6205
25	6.02	-14.04	0.6535	0.0180	0.2392	0.0275	0.3661	0.0695	-0.0419	0.0573	-0.6035	0.8253
26	6.03	-14.85	0.6913	0.0200	0.2459	0.0289	0.3558	0.0442	-0.0451	0.0485	-1.0202	1.0979
27	6.02	-15.67	0.7354	0.0211	0.2553	0.0288	0.3472	0.0222	-0.0490	0.0412	-2.2068	1.8557
28	6.03	-16.47	0.7742	0.0219	0.2697	0.0283	0.3483	-0.0323	-0.0527	0.0253	-1.6313	-0.7844
29	6.03	-17.31	0.8289	0.0244	0.2817	0.0294	0.3396	-0.0575	-0.0567	0.0167	0.9859	-0.2911
30	6.02	-18.17	0.8843	0.0249	0.2984	0.0281	0.3374	-0.0186	-0.0574	0.0279	3.0682	-1.5001
31	6.02	-19.04	0.9223	0.0234	0.3125	0.0254	0.3389	-0.0044	-0.0634	0.0370	14.4179	-8.4168
32	6.00	-19.77	0.9376	0.0174	0.3232	0.0186	0.3447	0.0595	-0.0628	0.0608	-1.0553	1.0223

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CNCF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		20	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNCF3	CH3	CB3	XCPF3	YCPF3	CNCF4	CH4	CB4	XCPF4	YCPF4
1	5.99	4.97	-0.3692	-0.0078	-0.1165	0.0211	0.3156	0.1985	0.0065	0.1511	0.0327	0.7614
2	5.98	4.58	-0.3574	-0.0071	-0.1143	0.0200	0.3198	0.2012	0.0073	0.1512	0.0363	0.7517
3	5.98	3.89	-0.3364	-0.0057	-0.1037	0.0169	0.3083	0.2011	0.0086	0.1512	0.0428	0.7519
4	5.98	3.13	-0.2747	-0.0037	-0.0798	0.0135	0.2903	0.2238	0.0099	0.1588	0.0445	0.7099
5	5.99	2.38	-0.2191	-0.0021	-0.0617	0.0096	0.2816	0.2320	0.0109	0.1610	0.0472	0.6940
6	5.98	1.59	-0.1639	0.0	-0.0387	0.0	0.2362	0.2411	0.0113	0.1648	0.0471	0.6637
7	5.98	0.86	-0.1136	0.0010	-0.0175	-0.0092	0.1545	0.2610	0.0119	0.1737	0.0456	0.6658
8	5.98	0.09	-0.0618	0.0028	0.0022	-0.0401	-0.0357	0.2599	0.0124	0.1719	0.0477	0.6614
9	5.99	-0.66	-0.0085	0.0040	0.0212	-0.4764	-2.4903	0.2621	0.0128	0.1737	0.0488	0.6629
10	5.98	-1.48	0.0374	0.0050	0.0418	0.1337	1.1166	0.2764	0.0131	0.1786	0.0476	0.6461
11	5.99	-2.27	0.0847	0.0065	0.0625	0.0767	0.7429	0.2816	0.0130	0.1800	0.0463	0.6392
12	5.99	-3.10	0.1400	0.0085	0.0872	0.0611	0.6232	0.2876	0.0137	0.1832	0.0478	0.6370
13	5.99	-3.89	0.1891	0.0106	0.1057	0.0563	0.5590	0.2931	0.0140	0.1851	0.0477	0.6313
14	5.99	-4.70	0.2461	0.0124	0.1281	0.0504	0.5205	0.2959	0.0138	0.1881	0.0466	0.6356
15	5.99	-5.40	0.3032	0.0158	0.1486	0.0521	0.4902	0.2943	0.0139	0.1868	0.0474	0.6345
16	5.99	-6.24	0.3713	0.0172	0.1735	0.0464	0.4684	0.3001	0.0145	0.1881	0.0483	0.6267
17	5.99	-7.01	0.4383	0.0185	0.1963	0.0423	0.4480	0.2893	0.0143	0.1873	0.0496	0.6473
18	6.00	-7.77	0.4953	0.0199	0.2185	0.0402	0.4420	0.2866	0.0147	0.1822	0.0514	0.6356
19	6.00	-8.59	0.5601	0.0228	0.2376	0.0408	0.4243	0.2886	0.0150	0.1879	0.0519	0.6508
20	6.00	-9.34	0.6163	0.0260	0.2548	0.0422	0.4135	0.2945	0.0154	0.1860	0.0524	0.6316
21	6.00	-10.17	0.6825	0.0301	0.2713	0.0441	0.3975	0.2856	0.0154	0.1856	0.0541	0.6456
22	6.01	-10.87	0.7357	0.0333	0.2872	0.0452	0.3904	0.2885	0.0157	0.1844	0.0546	0.6392
23	6.01	-11.65	0.8019	0.0356	0.3054	0.0444	0.3808	0.2794	0.0148	0.1827	0.0531	0.6538
24	6.01	-12.43	0.8568	0.0373	0.3195	0.0435	0.3734	0.2883	0.0162	0.1871	0.0563	0.6487
25	6.02	-13.04	0.8766	0.0501	0.3033	0.0571	0.3460	0.2862	0.0162	0.1871	0.0567	0.6535
26	6.03	-14.85	0.9154	0.0495	0.3103	0.0541	0.3390	0.2855	0.0160	0.1850	0.0560	0.6480
27	6.02	-15.67	0.9601	0.0507	0.3188	0.0528	0.3321	0.2912	0.0162	0.1874	0.0556	0.6435
28	6.03	-16.47	0.9787	0.0541	0.3205	0.0553	0.3275	0.2860	0.0164	0.1857	0.0575	0.6422
29	6.03	-17.31	0.9706	0.0603	0.3080	0.0622	0.3174	0.2776	0.0165	0.1817	0.0596	0.6544
30	6.02	-18.17	0.8805	0.0223	0.2784	0.0253	0.3162	0.2840	0.0170	0.1841	0.0598	0.6482
31	6.02	-19.04	0.7129	0.0133	0.2447	0.0187	0.3433	0.2866	0.0162	0.1843	0.0561	0.6384
32	6.00	-19.77	0.2003	0.0260	0.2766	0.1298	1.3811	0.3076	0.0166	0.1926	0.0541	0.6260

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	21	0.85	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	9.00	4.96	1.5094	-3.5450	-0.7087	1.5811	0.0240	0.1663	-2.3486	
2	8.99	4.51	1.4995	-3.5961	-0.6496	1.3764	0.0250	0.1677	-2.3982	
3	9.00	3.77	1.5166	-3.5930	-0.5786	1.2550	0.0200	0.1670	-2.3691	
4	8.99	3.05	1.5215	-3.6604	-0.4247	0.9626	0.0210	0.1707	-2.4061	
5	8.99	2.26	1.5187	-3.6550	-0.3249	0.6838	0.0210	0.1686	-2.4066	
6	8.99	1.66	1.5241	-3.7025	-0.2741	0.5767	0.0230	0.1654	-2.4293	
7	8.99	0.86	1.4972	-3.7129	-0.1511	0.3965	0.0260	0.1649	-2.4799	
8	8.99	0.11	1.5293	-3.6908	-0.0673	0.1772	0.0370	0.1681	-2.4134	
9	8.99	-0.65	1.5131	-3.6661	0.0208	-0.0391	0.0320	0.1610	-2.4229	
10	8.99	-1.46	1.5329	-3.7039	0.1977	-0.3137	0.0400	0.1616	-2.4162	
11	8.99	-2.26	1.5254	-3.7014	0.1932	-0.4574	0.0440	0.1658	-2.4265	
12	8.99	-3.08	1.5050	-3.6128	0.3217	-0.6653	0.0460	0.1620	-2.4005	
13	8.99	-3.85	1.5016	-3.6100	0.4942	-0.9749	0.0470	0.1639	-2.4041	
14	9.00	-4.67	1.4817	-3.5342	0.5847	-1.2676	0.0490	0.1608	-2.3852	
15	9.00	-5.36	1.4876	-3.4325	0.8061	-1.5905	0.0440	0.1542	-2.3074	
16	9.00	-6.20	1.4715	-3.4199	0.9520	-1.9937	0.0410	0.1614	-2.3241	
17	9.00	-6.96	1.4536	-3.3689	1.0773	-2.4040	0.0370	0.1636	-2.3176	
18	9.01	-7.75	1.4600	-3.3128	1.2895	-2.8302	0.0320	0.1557	-2.2691	
19	9.01	-8.57	1.4454	-3.2124	1.4431	-3.2112	0.0300	0.1600	-2.2225	
20	9.01	-9.32	1.4383	-3.1395	1.5636	-3.5219	0.0290	0.1527	-2.1828	
21	9.02	-10.14	1.4267	-3.0593	1.7206	-3.8916	0.0360	0.1525	-2.1443	
22	9.02	-10.86	1.3873	-2.9081	1.9394	-4.2760	0.0350	0.1532	-2.0962	
23	9.02	-11.65	1.3556	-2.7668	2.0298	-4.6025	0.0300	0.1414	-2.0409	
24	9.03	-12.39	1.3315	-2.5970	2.2317	-5.0061	0.0390	0.1342	-1.9504	
25	9.03	-13.15	1.3710	-2.7153	2.3997	-5.0883	0.0620	0.1343	-1.9805	
26	9.03	-14.01	1.3615	-2.6390	2.5715	-5.3908	0.0930	0.1353	-1.9383	
27	9.04	-14.83	1.3219	-2.4726	2.6114	-5.6626	0.1070	0.1517	-1.8705	
28	9.04	-15.63	1.3417	-2.3583	2.8284	-5.9355	0.1080	0.1311	-1.7577	
29	9.05	-16.42	1.3428	-2.3499	3.0213	-6.1976	0.1470	0.1320	-1.7500	
30	9.05	-17.27	1.3454	-2.3055	3.1286	-6.1450	0.2150	0.1603	-1.7136	
31	9.05	-18.10	1.3960	-2.4814	3.1179	-5.8619	0.3210	0.1890	-1.7775	
32	9.05	-18.99	1.4179	-2.5090	3.3080	-6.1440	0.3630	0.2020	-1.7695	
33	9.04	-19.73	1.4543	-2.7049	3.4248	-6.2505	0.4119	0.2134	-1.8600	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 1

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			21	0.85	1.7	0.0	0.82WUF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	9.00	4.96	-0.1969	0.0182	-0.0727	-0.0924	0.3693	0.6189	0.0206	0.2368	0.0333	0.3826
2	8.99	4.51	-0.1903	0.0182	-0.0695	-0.0956	0.3653	0.6163	0.0208	0.2359	0.0338	0.3827
3	9.00	3.77	-0.1674	0.0186	-0.0607	-0.1111	0.3625	0.6048	0.0213	0.2326	0.0353	0.3846
4	8.99	3.05	-0.1299	0.0190	-0.0476	-0.1466	0.3679	0.5936	0.0196	0.2297	0.0334	0.3869
5	8.99	2.26	-0.1219	0.0162	-0.0401	-0.1333	0.3291	0.5743	0.0194	0.2233	0.0339	0.3888
6	8.99	1.66	-0.0964	0.0115	-0.0256	-0.1198	0.2658	0.5658	0.0188	0.2192	0.0333	0.3875
7	8.99	0.86	-0.0874	0.0046	-0.0121	-0.0526	0.1987	0.5438	0.0189	0.2137	0.0347	0.3930
8	8.99	0.11	-0.0646	-0.0010	0.0047	0.0155	-0.0724	0.5316	0.0178	0.2080	0.0335	0.3913
9	8.99	-0.65	-0.0589	-0.0068	0.0198	0.1154	-0.3357	0.5089	0.0168	0.2012	0.0331	0.3953
10	8.99	-1.46	-0.0357	-0.0138	0.0381	0.3865	-1.0673	0.4993	0.0158	0.1970	0.0316	0.3945
11	8.99	-2.26	-0.0137	-0.0179	0.0496	1.3063	-3.6230	0.4798	0.0145	0.1902	0.0302	0.3964
12	8.99	-3.08	-0.0002	-0.0190	0.0610	94.9831	-305.1667	0.4586	0.0135	0.1841	0.0294	0.4015
13	8.99	-3.85	0.0477	-0.0173	0.0733	-0.3626	1.5366	0.4363	0.0116	0.1759	0.0266	0.4031
14	9.00	-4.67	0.0735	-0.0171	0.0820	-0.2333	1.1155	0.4186	0.0105	0.1700	0.0252	0.4061
15	9.00	-5.36	0.1083	-0.0162	0.0953	-0.1496	0.8798	0.3995	0.0084	0.1635	0.0210	0.4093
16	9.00	-6.20	0.1525	-0.0147	0.1087	-0.0464	0.7129	0.3891	0.0045	0.1599	0.0116	0.4108
17	9.00	-6.96	0.1951	-0.0127	0.1237	-0.0653	0.6341	0.3720	0.0	0.1520	0.0	0.4085
18	9.01	-7.75	0.2417	-0.0119	0.1356	-0.0492	0.5612	0.3565	-0.0045	0.1467	-0.0126	0.4115
19	9.01	-8.57	0.2860	-0.0100	0.1505	-0.0349	0.5262	0.3271	-0.0089	0.1416	-0.0272	0.4328
20	9.01	-9.32	0.3155	-0.0090	0.1592	-0.0283	0.4981	0.3146	-0.0123	0.1363	-0.0391	0.4333
21	9.02	-10.14	0.3647	-0.0069	0.1741	-0.0189	0.4774	0.2926	-0.0167	0.1303	-0.0570	0.4453
22	9.02	-10.86	0.4142	-0.0044	0.1832	-0.0107	0.4423	0.2632	-0.0201	0.1251	-0.0764	0.4753
23	9.02	-11.65	0.4413	-0.0025	0.1913	-0.0057	0.4336	0.2438	-0.0215	0.1196	-0.0882	0.4907
24	9.03	-12.39	0.4966	0.0008	0.2043	0.0016	0.4113	0.2085	-0.0267	0.1102	-0.1283	0.5284
25	9.03	-13.15	0.5261	0.0012	0.2135	0.0023	0.4066	0.2207	-0.0313	0.1129	-0.1418	0.5117
26	9.03	-14.01	0.5797	0.0037	0.2264	0.0064	0.3905	0.1911	-0.0355	0.1074	-0.1857	0.5619
27	9.04	-14.83	0.6206	0.0066	0.2343	0.0106	0.3775	0.1596	-0.0381	0.0956	-0.2387	0.5989
28	9.04	-15.63	0.6499	0.0087	0.2405	0.0134	0.3701	0.1386	-0.0409	0.0901	-0.2954	0.6500
29	9.05	-16.42	0.6849	0.0114	0.2480	0.0166	0.3621	0.1000	-0.0434	0.0780	-0.4339	0.7802
30	9.05	-17.27	0.7319	0.0123	0.2608	0.0168	0.3563	0.0790	-0.0472	0.0736	-0.5980	0.9319
31	9.05	-18.10	0.7708	0.0097	0.2728	0.0126	0.3540	0.0908	-0.0475	0.0760	-0.5236	0.8376
32	9.05	-18.99	0.8177	0.0113	0.2862	0.0139	0.3500	0.0430	-0.0476	0.0567	-1.1079	1.3193
33	9.04	-19.73	0.8507	0.0097	0.3034	0.0115	0.3566	0.0501	-0.0461	0.0553	-0.9210	1.1037

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	21	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	9.00	4.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.3636	0.0121	0.2022	0.0333	0.5559
2	8.99	4.51	9.9999	9.9999	9.9999	9.9999	9.9999	0.3645	0.0131	0.2042	0.0354	0.5526
3	9.00	3.77	9.9999	9.9999	9.9999	9.9999	9.9999	0.3738	0.0138	0.2080	0.0369	0.5563
4	8.99	3.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.3929	0.0151	0.2137	0.0384	0.5439
5	8.99	2.26	9.9999	9.9999	9.9999	9.9999	9.9999	0.4181	0.0154	0.2197	0.0369	0.5255
6	8.99	1.66	9.9999	9.9999	9.9999	9.9999	9.9999	0.4249	0.0168	0.2238	0.0396	0.5266
7	8.99	0.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.4377	0.0181	0.2301	0.0413	0.5258
8	8.99	0.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.4617	0.0187	0.2360	0.0405	0.5112
9	8.99	-0.65	9.9999	9.9999	9.9999	9.9999	9.9999	0.4677	0.0193	0.2390	0.0412	0.5111
10	8.99	-1.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.4911	0.0200	0.2456	0.0408	0.5002
11	8.99	-2.26	9.9999	9.9999	9.9999	9.9999	9.9999	0.5001	0.0204	0.2510	0.0409	0.5019
12	8.99	-3.08	9.9999	9.9999	9.9999	9.9999	9.9999	0.5145	0.0205	0.2551	0.0399	0.4959
13	8.99	-3.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.5200	0.0208	0.2588	0.0400	0.4976
14	9.00	-4.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.5270	0.0207	0.2624	0.0393	0.4979
15	9.00	-5.36	9.9999	9.9999	9.9999	9.9999	9.9999	0.5306	0.0208	0.2626	0.0392	0.4949
16	9.00	-6.20	9.9999	9.9999	9.9999	9.9999	9.9999	0.5348	0.0210	0.2655	0.0393	0.4964
17	9.00	-6.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.5446	0.0206	0.2664	0.0376	0.4891
18	9.01	-7.75	9.9999	9.9999	9.9999	9.9999	9.9999	0.5496	0.0211	0.2670	0.0391	0.4948
19	9.01	-8.57	9.9999	9.9999	9.9999	9.9999	9.9999	0.5415	0.0212	0.2685	0.0391	0.4959
20	9.01	-9.32	9.9999	9.9999	9.9999	9.9999	9.9999	0.5388	0.0223	0.2668	0.0414	0.4952
21	9.02	-10.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.5454	0.0229	0.2670	0.0420	0.4896
22	9.02	-10.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.5423	0.0219	0.2685	0.0404	0.4951
23	9.02	-11.65	9.9999	9.9999	9.9999	9.9999	9.9999	0.5362	0.0226	0.2651	0.0422	0.4943
24	9.03	-12.39	9.9999	9.9999	9.9999	9.9999	9.9999	0.5478	0.0233	0.2650	0.0426	0.4838
25	9.03	-13.15	9.9999	9.9999	9.9999	9.9999	9.9999	0.5489	0.0229	0.2688	0.0417	0.4697
26	9.03	-14.01	9.9999	9.9999	9.9999	9.9999	9.9999	0.5537	0.0228	0.2688	0.0413	0.4854
27	9.04	-14.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.5479	0.0235	0.2663	0.0429	0.4860
28	9.04	-15.63	9.9999	9.9999	9.9999	9.9999	9.9999	0.5456	0.0231	0.2671	0.0423	0.4895
29	9.05	-16.42	9.9999	9.9999	9.9999	9.9999	9.9999	0.5611	0.0242	0.2706	0.0431	0.4822
30	9.05	-17.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.5478	0.0232	0.2697	0.0424	0.4924
31	9.05	-18.10	9.9999	9.9999	9.9999	9.9999	9.9999	0.5559	0.0235	0.2707	0.0423	0.4870
32	9.05	-18.99	9.9999	9.9999	9.9999	9.9999	9.9999	0.5568	0.0245	0.2674	0.0441	0.4803
33	9.06	-19.73	9.9999	9.9999	9.9999	9.9999	9.9999	0.5654	0.0239	0.2725	0.0423	0.4819

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 1

TEST PART MACH RATIO-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 22 0.85 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	12.00	4.96	2.1629	-5.0908	-0.6772	1.1391	0.0400	0.1451	-2.3537		
2	12.00	4.60	2.1348	-5.0195	-0.5996	1.1004	0.0420	0.1392	-2.3512		
3	11.99	3.85	2.1159	-5.0700	-0.5752	1.0853	0.0400	0.1472	-2.3961		
4	11.99	3.14	2.1397	-5.1373	-0.4625	0.7501	0.0360	0.1467	-2.4009		
5	11.99	2.35	2.1467	-5.1251	-0.3752	0.6222	0.0290	0.1439	-2.3874		
6	11.99	1.60	2.1719	-5.1774	-0.2323	0.4342	0.0320	0.1489	-2.3838		
7	11.99	0.83	2.1728	-5.2187	-0.1424	0.3103	0.0370	0.1539	-2.4018		
8	11.99	0.10	2.1268	-5.1633	-0.0155	0.1297	0.0290	0.1459	-2.4277		
9	12.00	-0.71	2.1501	-5.1219	0.0625	0.0239	0.0380	0.1471	-2.3821		
10	11.99	-1.48	2.1222	-5.1108	0.1691	-0.1427	0.0430	0.1467	-2.4082		
11	11.99	-2.30	2.1437	-5.1229	0.1918	-0.2205	0.0410	0.1408	-2.3897		
12	12.00	-3.07	2.1205	-5.0125	0.3150	-0.4225	0.0470	0.1364	-2.3638		
13	12.00	-3.88	2.1000	-4.9828	0.3927	-0.6928	0.0530	0.1409	-2.3727		
14	12.00	-4.68	2.1073	-4.9570	0.5882	-0.9815	0.0480	0.1374	-2.3523		
15	12.00	-5.40	2.0772	-4.9029	0.7400	-1.2730	0.0300	0.1376	-2.3603		
16	12.01	-6.22	2.0790	-4.7744	0.8634	-1.6607	0.0270	0.1339	-2.2965		
17	12.01	-6.96	2.0735	-4.6587	1.0422	-2.0674	0.0160	0.1272	-2.2468		
18	12.02	-7.81	2.0419	-4.5085	1.2085	-2.4509	0.0080	0.1259	-2.2080		
19	12.01	-8.59	2.0355	-4.5355	1.3543	-2.8259	0.0120	0.1333	-2.2301		
20	12.02	-9.38	2.0224	-4.4012	1.5644	-3.2350	0.0170	0.1198	-2.1762		
21	12.02	-10.17	2.0219	-4.3715	1.7252	-3.6491	0.0170	0.1339	-2.1620		
22	12.03	-10.87	2.0209	-4.2381	1.8634	-3.9295	0.0140	0.1280	-2.0971		
23	12.03	-11.68	1.9537	-4.0101	2.0597	-4.4174	0.0110	0.1229	-2.0525		
24	12.04	-12.42	1.9576	-3.9775	2.2339	-4.6563	0.0280	0.1203	-2.0318		
25	12.04	-13.22	1.9527	-3.8987	2.3294	-4.7040	0.0700	0.1279	-1.9965		
26	12.04	-14.06	1.9937	-3.9001	2.5192	-4.9806	0.0980	0.1156	-1.9562		
27	12.04	-14.87	1.9021	-3.5917	2.7593	-5.3879	0.1000	0.1061	-1.8884		
28	12.05	-15.68	1.8972	-3.5109	2.8342	-5.6827	0.1210	0.1046	-1.8506		
29	12.04	-16.52	1.9265	-3.6330	2.9177	-5.8006	0.1620	0.1110	-1.8858		
30	12.04	-17.33	2.0045	-3.9322	2.9553	-5.4683	0.2980	0.1553	-1.9617		
31	12.04	-18.23	1.9660	-3.8393	3.1500	-5.9168	0.3160	0.1475	-1.9528		
32	12.04	-19.06	1.9684	-3.7557	3.3169	-6.0014	0.3570	0.1781	-1.9079		
33	12.05	-19.86	2.0528	-3.8938	3.3364	-6.0007	0.4259	0.1464	-1.8968		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		22		0.85		1.7	U-0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	12.00	4.96	-0.0932	0.0344	-0.0461	-0.3690	0.4952	0.8317	0.0286	0.2982	0.0344	0.3586	
2	12.00	4.80	-0.0868	0.0344	-0.0451	-0.3962	0.5199	0.8190	0.0264	0.2948	0.0347	0.3600	
3	11.99	3.85	-0.0654	0.0351	-0.0364	-0.5374	0.5565	0.8141	0.0281	0.2941	0.0345	0.3613	
4	11.99	3.14	-0.0648	0.0325	-0.0333	-0.5022	0.5138	0.8034	0.0277	0.2887	0.0345	0.3594	
5	11.99	2.35	-0.0581	0.0270	-0.0249	-0.4655	0.4279	0.7812	0.0267	0.2842	0.0342	0.3638	
6	11.99	1.60	-0.0526	0.0186	-0.0150	-0.2979	0.2390	0.7677	0.0261	0.2786	0.0340	0.3629	
7	11.99	0.83	-0.0684	0.0065	-0.0021	-0.0957	0.0306	0.7417	0.0249	0.2713	0.0336	0.3658	
8	11.99	0.10	-0.0774	-0.0024	0.0090	0.0316	-0.1164	0.7164	0.0248	0.2628	0.0347	0.3669	
9	12.00	-0.71	-0.0827	-0.0121	0.0203	0.1465	-0.2460	0.6856	0.0235	0.2530	0.0343	0.3691	
10	11.99	-1.48	-0.0914	-0.0216	0.0339	0.2368	-0.3714	0.6628	0.0225	0.2448	0.0340	0.3694	
11	11.99	-2.30	-0.1019	-0.0297	0.0416	0.2919	-0.4087	0.6392	0.0226	0.2358	0.0354	0.3689	
12	12.00	-3.07	-0.0870	-0.0336	0.0553	0.3861	-0.6358	0.5993	0.0209	0.2248	0.0349	0.3751	
13	12.00	-3.88	-0.0533	-0.0339	0.0679	0.6359	-1.2747	0.5795	0.0191	0.2156	0.0329	0.3720	
14	12.00	-4.68	-0.0235	-0.0319	0.0755	1.3572	-3.2285	0.5626	0.0175	0.2097	0.0312	0.3727	
15	12.00	-5.40	-0.0032	-0.0302	0.0777	6.4514	-24.2917	0.5531	0.0163	0.2058	0.0296	0.3721	
16	12.01	-6.22	0.0419	-0.0272	0.0590	-0.6490	2.2210	0.5343	0.0133	0.2005	0.0249	0.3753	
17	12.01	-6.98	0.0851	-0.0257	0.1048	-0.3019	1.2322	0.5208	0.0094	0.1948	0.0180	0.3741	
18	12.02	-7.81	0.1275	-0.0237	0.1161	-0.1854	0.9105	0.5003	0.0048	0.1912	0.0096	0.3822	
19	12.01	-8.59	0.1633	-0.0225	0.1261	-0.1381	0.7645	0.4796	-0.0003	0.1855	-0.0007	0.3868	
20	12.02	-9.38	0.2145	-0.0220	0.1432	-0.1028	0.6679	0.4601	-0.0056	0.1808	-0.0123	0.3930	
21	12.02	-10.17	0.2613	-0.0215	0.1536	-0.0825	0.5881	0.4385	-0.0106	0.1749	-0.0238	0.3989	
22	12.03	-10.87	0.2942	-0.0204	0.1638	-0.0695	0.5568	0.4163	-0.0140	0.1705	-0.0337	0.4096	
23	12.03	-11.68	0.3415	-0.0193	0.1764	-0.0566	0.5165	0.3813	-0.0190	0.1635	-0.0499	0.4287	
24	12.04	-12.42	0.3832	-0.0178	0.1881	-0.0464	0.4908	0.3577	-0.0234	0.1582	-0.0655	0.4422	
25	12.04	-13.22	0.4320	-0.0156	0.1980	-0.0362	0.4584	0.3341	-0.0271	0.1504	-0.0812	0.4502	
26	12.04	-14.06	0.4647	-0.0140	0.2072	-0.0301	0.4460	0.3021	-0.0303	0.1425	-0.1004	0.4715	
27	12.04	-14.87	0.5152	-0.0121	0.2178	-0.0236	0.4227	0.2784	-0.0351	0.1369	-0.1260	0.4916	
28	12.05	-15.68	0.5539	-0.0108	0.2298	-0.0196	0.4148	0.2578	-0.0404	0.1355	-0.1569	0.5256	
29	12.04	-16.52	0.6135	-0.0060	0.2451	-0.0099	0.3995	0.2478	-0.0434	0.1288	-0.1751	0.5201	
30	12.04	-17.33	0.6486	-0.0096	0.2588	-0.0149	0.3990	0.2635	-0.0470	0.1367	-0.1783	0.5188	
31	12.04	-18.23	0.7162	-0.0043	0.2720	-0.0061	0.3798	0.2407	-0.0477	0.1257	-0.1983	0.5222	
32	12.04	-19.06	0.7325	-0.0068	0.2802	-0.0093	0.3825	0.2010	-0.0489	0.1137	-0.2432	0.5656	
33	12.05	-19.86	0.7601	-0.0050	0.3035	-0.0066	0.3992	0.1787	-0.0466	0.1054	-0.2610	0.5901	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 1

TEST PART MACH RX10-6			PHI	LUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 22 0.85 1.7			0.0	B2WUF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF 3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	12.00	4.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.5383	0.0198	0.2479	0.0369	0.4604
2	12.00	4.60	9.9999	9.9999	9.9999	9.9999	9.9999	0.5339	0.0204	0.2475	0.0383	0.4636
3	11.99	3.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.5469	0.0213	0.2502	0.0389	0.4575
4	11.99	3.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.5661	0.0229	0.2577	0.0405	0.4553
5	11.99	2.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.5826	0.0235	0.2640	0.0404	0.4532
6	11.99	1.60	9.9999	9.9999	9.9999	9.9999	9.9999	0.6182	0.0242	0.2766	0.0391	0.4474
7	11.99	0.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.6386	0.0243	0.2852	0.0380	0.4466
8	11.99	0.10	9.9999	9.9999	9.9999	9.9999	9.9999	0.6559	0.0238	0.2909	0.0393	0.4436
9	12.00	-0.71	9.9999	9.9999	9.9999	9.9999	9.9999	0.6780	0.0263	0.2977	0.0389	0.4391
10	11.99	-1.48	9.9999	9.9999	9.9999	9.9999	9.9999	0.6975	0.0277	0.3048	0.0397	0.4370
11	11.99	-2.30	9.9999	9.9999	9.9999	9.9999	9.9999	0.7207	0.0283	0.3127	0.0393	0.4339
12	12.00	-3.07	9.9999	9.9999	9.9999	9.9999	9.9999	0.7282	0.0287	0.3131	0.0395	0.4300
13	12.00	-3.88	9.9999	9.9999	9.9999	9.9999	9.9999	0.7469	0.0299	0.3187	0.0400	0.4267
14	12.00	-4.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.7551	0.0307	0.3240	0.0407	0.4291
15	12.00	-5.40	9.9999	9.9999	9.9999	9.9999	9.9999	0.7594	0.0303	0.3255	0.0400	0.4287
16	12.01	-6.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.7575	0.0302	0.3246	0.0399	0.4285
17	12.01	-6.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.7509	0.0305	0.3236	0.0406	0.4310
18	12.02	-7.81	9.9999	9.9999	9.9999	9.9999	9.9999	0.7579	0.0305	0.3245	0.0403	0.4282
19	12.01	-8.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.7752	0.0313	0.3292	0.0404	0.4247
20	12.02	-9.38	9.9999	9.9999	9.9999	9.9999	9.9999	0.7649	0.0321	0.3277	0.0420	0.4285
21	12.02	-10.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.7788	0.0322	0.3312	0.0414	0.4253
22	12.03	-10.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.7805	0.0322	0.3315	0.0412	0.4248
23	12.03	-11.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.7780	0.0329	0.3295	0.0423	0.4236
24	12.04	-12.42	9.9999	9.9999	9.9999	9.9999	9.9999	0.7773	0.0324	0.3325	0.0417	0.4278
25	12.04	-13.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.7707	0.0319	0.3312	0.0414	0.4297
26	12.04	-14.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.7934	0.0340	0.3366	0.0429	0.4243
27	12.04	-14.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.7812	0.0342	0.3321	0.0438	0.4251
28	12.05	-15.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.7810	0.0332	0.3307	0.0425	0.4235
29	12.04	-16.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.7831	0.0350	0.3307	0.0447	0.4223
30	12.04	-17.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.7934	0.0335	0.3366	0.0422	0.4243
31	12.04	-18.23	9.9999	9.9999	9.9999	9.9999	9.9999	0.8000	0.0343	0.3380	0.0429	0.4226
32	12.04	-19.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.7955	0.0334	0.3375	0.0420	0.4243
33	12.05	-19.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.7965	0.0342	0.3367	0.0430	0.4227

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	23	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	15.01	4.97	2.6838	-6.1591	-0.6153	1.1744	0.1540	0.1282	-2.2949		
2	15.01	4.95	2.6227	-6.0324	-0.7353	1.1774	0.1590	0.1115	-2.3001		
3	15.01	4.30	2.7339	-6.2352	-0.6837	0.9032	0.1460	0.1171	-2.2607		
4	15.01	3.58	2.6936	-6.1128	-0.5661	0.8136	0.1320	0.1156	-2.2693		
5	15.00	2.86	2.7376	-6.4274	-0.4367	0.5834	0.1020	0.1177	-2.3478		
6	15.00	2.05	2.8018	-6.5112	-0.2962	0.4406	0.0670	0.1219	-2.3239		
7	15.00	1.30	2.7904	-6.3053	-0.2010	0.2714	0.0300	0.1255	-2.3313		
8	15.01	0.54	2.7787	-6.4489	-0.1145	0.2463	0.0310	0.1239	-2.3208		
9	15.01	-0.21	2.7916	-6.4200	-0.0694	0.2201	0.0490	0.1253	-2.2997		
10	15.01	-1.02	2.7835	-6.4576	0.0688	0.0977	0.0330	0.1267	-2.3199		
11	15.02	-1.80	2.7234	-6.0405	0.1049	-0.0549	0.0020	0.1221	-2.2363		
12	15.02	-2.58	2.7179	-6.1168	0.2679	-0.2850	-0.0050	0.1230	-2.2505		
13	15.02	-3.44	2.6890	-6.0064	0.3444	-0.4841	-0.0300	0.1251	-2.2336		
14	15.02	-4.23	2.6801	-5.9429	0.4949	-0.7379	-0.0360	0.1182	-2.2174		
15	15.02	-4.98	2.6530	-5.8439	0.6661	-1.1535	-0.0450	0.1056	-2.2028		
16	15.02	-5.75	2.6361	-5.7922	0.8712	-1.4236	-0.0770	0.1078	-2.1973		
17	15.03	-6.57	2.6180	-5.7099	0.9452	-1.6262	-0.0930	0.1135	-2.1810		
18	15.03	-7.36	2.5925	-5.6412	1.2015	-2.1601	-0.1080	0.1146	-2.1760		
19	15.04	-8.13	2.6011	-5.4392	1.3556	-2.5584	-0.0790	0.1043	-2.0912		
20	15.03	-8.96	2.6281	-5.3451	1.5001	-2.9080	-0.0750	0.1127	-2.0529		
21	15.04	-9.71	2.5621	-5.3077	1.6457	-3.2058	-0.0700	0.1101	-2.0716		
22	15.05	-10.52	2.5672	-5.1918	1.7569	-3.6125	-0.0540	0.0961	-2.0224		
23	15.06	-11.27	2.5478	-5.0657	1.9513	-3.9467	-0.0650	0.0999	-1.9883		
24	15.05	-12.06	2.5220	-5.0286	2.2054	-4.3464	-0.0740	0.0967	-1.9939		
25	15.05	-12.82	2.4597	-4.9084	2.3545	-4.5541	-0.0620	0.0961	-1.9955		
26	15.06	-13.59	2.4036	-4.8658	2.4775	-4.7893	-0.0540	0.0934	-1.9412		
27	15.07	-14.46	2.4747	-4.8664	2.6071	-4.9497	0.0090	0.0876	-1.8857		
28	15.08	-15.28	2.4600	-4.4898	2.8261	-5.3344	0.0240	0.0869	-1.8251		
29	15.08	-16.12	2.4889	-4.5963	2.9021	-5.3178	0.1040	0.1061	-1.8467		
30	15.08	-16.89	2.5989	-4.8342	2.8778	-4.9678	0.2100	0.1127	-1.8601		
31	15.07	-17.82	2.5781	-4.8611	3.0344	-5.6817	0.2670	0.1043	-1.8856		
32	15.07	-18.67	2.5685	-4.8147	3.1647	-5.9324	0.2960	0.1027	-1.8745		
33	15.07	-19.49	2.5830	-4.8380	3.4076	-6.0454	0.3610	0.1004	-1.8730		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 23 0.85 1.7				0.0	0.82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CHI2	CHI2	XCPF2	YCPF2
1	15.01	4.97	0.0075	0.0419	0.0001	0.5857	0.0132	0.9128	0.0501	0.3053	0.0549	0.3344
2	15.01	4.95	0.0127	0.0356	0.0045	3.1215	0.7505	0.4057	0.0504	0.3031	0.0556	0.3346
3	15.01	4.30	0.0208	0.0389	0.0135	1.0699	0.6505	0.4313	0.0462	0.3144	0.0496	0.3376
4	15.01	3.58	0.0089	0.0380	0.0074	4.2745	0.8276	0.9111	0.0492	0.3026	0.0540	0.3321
5	15.00	2.86	0.0085	0.0309	0.0132	3.6346	1.5567	0.9481	0.0377	0.3245	0.0398	0.3423
6	15.00	2.05	0.0333	0.0225	0.0075	0.6771	0.2253	0.9451	0.0374	0.3227	0.0396	0.3415
7	15.00	1.30	0.0756	0.0163	0.0021	0.2156	0.0279	0.9240	0.0374	0.3170	0.0405	0.3431
8	15.01	0.54	0.0991	0.0039	0.0068	0.0393	0.0664	0.8970	0.0361	0.3072	0.0405	0.3444
9	15.01	-0.21	0.1209	0.0126	0.0256	0.1046	0.2119	0.8586	0.0342	0.2960	0.0399	0.3447
10	15.01	-1.02	0.1636	0.0228	0.0266	0.1393	0.1625	0.8300	0.0341	0.2860	0.0411	0.3445
11	15.02	-1.80	0.1782	0.0355	0.0380	0.1992	0.2134	0.7941	0.0321	0.2712	0.0405	0.3415
12	15.02	-2.58	0.2005	0.0437	0.0471	0.2182	0.2349	0.7717	0.0301	0.2655	0.0390	0.3441
13	15.02	-3.44	0.2025	0.0471	0.0479	0.2328	0.2367	0.7475	0.0234	0.2573	0.0380	0.3442
14	15.02	-4.23	0.1786	0.0470	0.0562	0.2631	0.3144	0.7221	0.0258	0.2498	0.0358	0.3460
15	15.02	-4.98	0.1333	0.0471	0.0701	0.3537	0.5257	0.7094	0.0238	0.2470	0.0336	0.3482
16	15.02	-5.75	0.1264	0.0418	0.0682	0.3306	0.5394	0.7155	0.0226	0.2453	0.0316	0.3429
17	15.03	-6.57	0.1097	0.0358	0.0627	0.3263	0.5720	0.6902	0.0216	0.2361	0.0316	0.3421
18	15.03	-7.36	0.0720	0.0337	0.0749	0.4660	1.0404	0.6769	0.0188	0.2346	0.0278	0.3467
19	15.04	-8.13	0.0168	0.0351	0.1065	2.0889	6.3392	0.6362	0.0107	0.2257	0.0168	0.3547
20	15.05	-8.96	0.0567	0.0356	0.1209	0.6286	2.1322	0.6236	0.0044	0.2252	0.0071	0.3611
21	15.04	-9.71	0.0858	0.0346	0.1353	0.4038	1.5768	0.5982	0.0007	0.2179	0.0013	0.3643
22	15.05	-10.52	0.1543	0.0326	0.1505	0.2112	0.4755	0.5512	0.0079	0.2039	0.0143	0.3699
23	15.06	-11.27	0.1749	0.0324	0.1575	0.1803	0.8757	0.5352	0.0118	0.2020	0.0221	0.3775
24	15.05	-12.06	0.1958	0.0321	0.1658	0.1639	0.8470	0.5336	0.0148	0.2038	0.0277	0.3819
25	15.05	-12.82	0.2106	0.0329	0.1627	0.1566	0.7751	0.5453	0.0163	0.2075	0.0300	0.3805
26	15.06	-13.59	0.2417	0.0318	0.1718	0.1315	0.7110	0.5118	0.0196	0.1987	0.0364	0.3883
27	15.07	-14.46	0.3210	0.0299	0.1504	0.0933	0.5929	0.4544	0.0278	0.1857	0.0612	0.4087
28	15.08	-15.28	0.3776	0.0291	0.2069	0.0770	0.5479	0.4098	0.0351	0.1756	0.0857	0.4284
29	15.08	-16.12	0.4434	0.0280	0.2271	0.0631	0.5122	0.3725	0.0426	0.1689	0.1143	0.4535
30	15.08	-16.89	0.4880	0.0247	0.2416	0.0506	0.4951	0.3697	0.0417	0.1668	0.1129	0.4511
31	15.07	-17.82	0.6199	0.0198	0.2705	0.0320	0.4364	0.3363	0.0483	0.1593	0.1436	0.4735
32	15.07	-18.67	0.6443	0.0195	0.2732	0.0303	0.4240	0.3514	0.0495	0.1681	0.1408	0.4783
33	15.07	-19.49	0.6685	0.0186	0.2820	0.0278	0.4219	0.2994	0.0468	0.1487	0.1564	0.4965

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		23	0.85	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
1	15.01	4.97	9.9999	9.9999	9.9999	9.9999	9.9999	0.7090	0.0290	0.2942	0.0409	0.4150	
2	15.01	4.95	9.9999	9.9999	9.9999	9.9999	9.9999	0.7064	0.0310	0.2898	0.0439	0.4102	
3	15.01	4.30	9.9999	9.9999	9.9999	9.9999	9.9999	0.7123	0.0316	0.2932	0.0444	0.4117	
4	15.01	3.58	9.9999	9.9999	9.9999	9.9999	9.9999	0.7148	0.0323	0.2949	0.0452	0.4125	
5	15.00	2.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.7395	0.0352	0.3013	0.0476	0.4074	
6	15.00	2.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.7627	0.0344	0.3133	0.0452	0.4108	
7	15.00	1.30	9.9999	9.9999	9.9999	9.9999	9.9999	0.7805	0.0348	0.3172	0.0446	0.4065	
8	15.01	0.54	9.9999	9.9999	9.9999	9.9999	9.9999	0.8011	0.0362	0.3277	0.0452	0.4091	
9	15.01	-0.21	9.9999	9.9999	9.9999	9.9999	9.9999	0.8366	0.0369	0.3393	0.0441	0.4055	
10	15.01	-1.02	9.9999	9.9999	9.9999	9.9999	9.9999	0.8549	0.0378	0.3461	0.0442	0.4048	
11	15.02	-1.80	9.9999	9.9999	9.9999	9.9999	9.9999	0.8180	0.0518	0.3206	0.0634	0.3920	
12	15.02	-2.58	9.9999	9.9999	9.9999	9.9999	9.9999	0.8388	0.0505	0.3307	0.0602	0.3942	
13	15.02	-3.44	9.9999	9.9999	9.9999	9.9999	9.9999	0.8290	0.0483	0.3228	0.0582	0.3894	
14	15.02	-4.23	9.9999	9.9999	9.9999	9.9999	9.9999	0.8312	0.0487	0.3244	0.0586	0.3902	
15	15.02	-4.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.8384	0.0504	0.3259	0.0601	0.3887	
16	15.02	-5.75	9.9999	9.9999	9.9999	9.9999	9.9999	0.8449	0.0496	0.3267	0.0587	0.3891	
17	15.03	-6.57	9.9999	9.9999	9.9999	9.9999	9.9999	0.8595	0.0487	0.3314	0.0567	0.3856	
18	15.03	-7.36	9.9999	9.9999	9.9999	9.9999	9.9999	0.8629	0.0489	0.3347	0.0567	0.3879	
19	15.04	-8.13	9.9999	9.9999	9.9999	9.9999	9.9999	0.8618	0.0489	0.3341	0.0567	0.3876	
20	15.05	-8.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.8809	0.0489	0.3405	0.0555	0.3866	
21	15.04	-9.71	9.9999	9.9999	9.9999	9.9999	9.9999	0.8836	0.0485	0.3392	0.0549	0.3839	
22	15.05	-10.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.8801	0.0501	0.3399	0.0569	0.3862	
23	15.06	-11.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.8943	0.0502	0.3429	0.0562	0.3834	
24	15.05	-12.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.9012	0.0487	0.3453	0.0541	0.3831	
25	15.05	-12.82	9.9999	9.9999	9.9999	9.9999	9.9999	0.8923	0.0512	0.3456	0.0574	0.3873	
26	15.06	-13.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.8946	0.0502	0.3461	0.0561	0.3869	
27	15.07	-14.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.9145	0.0493	0.3499	0.0539	0.3826	
28	15.08	-15.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.9265	0.0506	0.3534	0.0546	0.3815	
29	15.08	-16.12	9.9999	9.9999	9.9999	9.9999	9.9999	0.9361	0.0523	0.3549	0.0558	0.3791	
30	15.08	-16.89	9.9999	9.9999	9.9999	9.9999	9.9999	0.9433	0.0506	0.3566	0.0536	0.3780	
31	15.07	-17.82	9.9999	9.9999	9.9999	9.9999	9.9999	0.9547	0.0529	0.3629	0.0554	0.3801	
32	15.07	-18.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.9707	0.0537	0.3688	0.0554	0.3800	
33	15.07	-19.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.9733	0.0551	0.3692	0.0566	0.3793	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		24	0.85	1.7	0.0	B2W012	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP		
1	18.03	4.94	3.2857	-7.1296	-0.7940	1.1436	0.2340	0.0917	-2.1699		
2	18.03	4.53	3.3519	-7.2203	-0.7231	0.9634	0.2060	0.0998	-2.1541		
3	18.02	3.77	3.3265	-7.2647	-0.7092	0.9479	0.2320	0.0909	-2.1839		
4	18.02	3.05	3.2909	-7.2199	-0.5037	0.6862	0.1840	0.0792	-2.1939		
5	18.02	2.26	3.3062	-7.3143	-0.3185	0.5584	0.1300	0.0769	-2.2123		
6	18.02	1.49	3.3128	-7.2775	-0.2019	0.2576	0.0640	0.0698	-2.1968		
7	18.03	0.72	3.3911	-7.2791	-0.0956	0.1368	0.0330	0.1046	-2.1466		
8	18.03	0.0	3.3644	-7.1838	-0.0164	0.1409	0.0010	0.1017	-2.1353		
9	18.02	-0.80	3.3545	-7.3709	-0.0644	0.1711	0.0070	0.0873	-2.1973		
10	18.02	-1.62	3.3497	-7.4142	0.1080	-0.1112	-0.0450	0.0950	-2.2134		
11	18.02	-2.41	3.3764	-7.4855	0.2641	-0.2387	-0.0850	0.0970	-2.2170		
12	18.02	-3.28	3.3206	-7.3024	0.3496	-0.3474	-0.1160	0.0922	-2.1992		
13	18.03	-4.07	3.3654	-7.2012	0.4784	-0.5198	-0.1250	0.1034	-2.1398		
14	18.04	-4.86	3.2455	-6.8710	0.5700	-0.7040	-0.1400	0.1163	-2.1145		
15	18.04	-5.60	3.1912	-6.7254	0.7826	-1.2886	-0.1590	0.1062	-2.1075		
16	18.03	-6.39	3.1463	-6.7215	0.9601	-1.6331	-0.2080	0.0996	-2.1363		
17	18.03	-7.23	3.1694	-6.7438	1.1949	-2.0629	-0.2750	0.0876	-2.1278		
18	18.04	-8.00	3.1397	-6.5773	1.4035	-2.3609	-0.2190	0.0750	-2.0949		
19	18.05	-8.81	3.1391	-6.3235	1.5861	-2.7265	-0.2120	0.0644	-2.0151		
20	18.07	-9.61	3.1362	-6.0254	1.6814	-3.2228	-0.1990	0.0984	-1.9213		
21	18.05	-10.40	3.0630	-6.1879	1.9732	-3.7584	-0.2510	0.0666	-2.0202		
22	18.09	-11.16	3.0714	-5.6198	1.9636	-3.8680	-0.2200	0.1062	-1.8297		
23	18.07	-11.97	2.9401	-5.5880	2.1934	-4.4386	-0.2850	0.0863	-1.9006		
24	18.08	-12.72	3.0093	-5.6328	2.4849	-4.6187	-0.2100	0.0878	-1.8718		
25	18.08	-13.56	2.9912	-5.4535	2.4966	-4.8920	-0.1610	0.0804	-1.8232		
26	18.10	-14.41	2.9150	-5.2379	2.7653	-5.2923	-0.1640	0.0731	-1.7969		
27	18.10	-15.27	2.9238	-5.2092	2.8356	-5.2027	-0.1220	0.0765	-1.7816		
28	18.11	-16.06	3.0321	-5.2388	2.9429	-5.0350	-0.0370	0.0911	-1.7278		
29	18.12	-16.83	3.0286	-5.1219	2.9635	-4.7358	0.0650	0.1038	-1.6912		
30	18.14	-17.75	3.1292	-5.0928	3.1512	-5.1556	0.1210	0.0917	-1.6275		
31	18.13	-18.63	3.1643	-5.3479	3.1057	-5.3348	0.2030	0.0837	-1.6901		
32	18.13	-19.47	3.1481	-5.2762	3.2559	-5.5101	0.2600	0.0781	-1.6760		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	24	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	18.03	4.94	0.0542	0.0430	0.0076	0.7932	0.1395	0.9960	0.0564	0.3055	0.0566	0.3067	
2	18.03	4.53	0.0476	0.0483	-0.0049	1.0145	-0.1038	0.9963	0.0551	0.3052	0.0553	0.3063	
3	18.02	3.77	0.0851	0.0335	0.0357	0.3536	0.4190	0.9934	0.0539	0.3114	0.0542	0.3135	
4	18.02	3.05	0.0437	0.0172	0.0444	0.3435	1.0151	0.9999	0.0535	0.3136	0.0535	0.3136	
5	18.02	2.26	-0.0084	0.0232	0.0131	-2.7674	-1.5596	0.9938	0.0543	0.3096	0.0546	0.3115	
6	18.02	1.49	-0.0639	0.0247	-0.0173	-0.3873	0.2706	0.9859	0.0552	0.3052	0.0560	0.3096	
7	18.03	0.72	-0.0815	0.0113	-0.0041	-0.1392	0.0498	0.9836	0.0509	0.3108	0.0517	0.3159	
8	18.03	0.0	-0.1264	-0.0011	-0.0015	0.0087	0.0152	0.9616	0.0501	0.3068	0.0521	0.3191	
9	18.02	-0.80	-0.1487	-0.0277	0.0208	0.1866	-0.1940	0.9586	0.0451	0.3101	0.0470	0.3235	
10	18.02	-1.62	-0.1892	-0.0284	0.0111	0.1501	-0.0584	0.9557	0.0468	0.3065	0.0490	0.3207	
11	18.02	-2.41	-0.2259	-0.0378	0.0127	0.1675	-0.0563	0.9533	0.0368	0.3140	0.0386	0.3293	
12	18.02	-3.28	-0.2384	-0.0476	0.0170	0.1998	-0.0711	0.9373	0.0363	0.3085	0.0388	0.3292	
13	18.03	-4.07	-0.2654	-0.0454	0.0107	0.1863	-0.0402	0.8986	0.0336	0.2982	0.0374	0.3319	
14	18.04	-4.86	-0.2130	-0.0535	0.0333	0.2514	-0.1565	0.8438	0.0284	0.2843	0.0336	0.3369	
15	18.04	-5.60	-0.1727	-0.0539	0.0519	0.3123	-0.3008	0.8561	0.0272	0.2868	0.0318	0.3350	
16	18.03	-6.39	-0.1488	-0.0526	0.0595	0.3534	-0.4027	0.8507	0.0272	0.2848	0.0320	0.3347	
17	18.03	-7.23	-0.2048	-0.0455	0.0285	0.2221	-0.1390	0.8654	0.0315	0.2857	0.0364	0.3301	
18	18.04	-8.00	-0.1209	-0.0379	0.0474	0.3138	-0.3922	0.8094	0.0229	0.2724	0.0283	0.3365	
19	18.05	-8.81	-0.0687	-0.0375	0.0675	0.5456	-0.9385	0.7695	0.0150	0.2635	0.0196	0.3424	
20	18.07	-9.61	0.0425	-0.0436	0.1125	-1.0257	2.6485	0.7522	0.0061	0.2627	0.0082	0.3493	
21	18.05	-10.40	-0.0008	-0.0385	0.0898	48.1789	-112.2917	0.7684	0.0102	0.2640	0.0133	0.3436	
22	18.09	-11.16	0.1231	-0.0426	0.1364	-0.3464	1.1082	0.6727	-0.0088	0.2447	-0.0132	0.3638	
23	18.07	-11.97	0.1149	-0.0437	0.1358	-0.3807	1.1818	0.7387	-0.0018	0.2595	-0.0024	0.3514	
24	18.08	-12.72	0.1434	-0.0405	0.1452	-0.2824	1.0124	0.6817	-0.0144	0.2469	-0.0211	0.3623	
25	18.08	-13.56	0.2347	-0.0452	0.1821	-0.1928	0.7759	0.6236	-0.0249	0.2297	-0.0399	0.3683	
26	18.10	-14.41	0.2211	-0.0434	0.1691	-0.1963	0.7651	0.6262	-0.0229	0.2295	-0.0366	0.3664	
27	18.10	-15.27	0.2675	-0.0411	0.1857	-0.1431	0.6597	0.5729	-0.0325	0.2209	-0.0568	0.3856	
28	18.11	-16.06	0.2855	-0.0454	0.1918	-0.1591	0.6718	0.5876	-0.0374	0.2277	-0.0637	0.3875	
29	18.12	-16.83	0.3654	-0.0460	0.2187	-0.1258	0.5983	0.5253	-0.0456	0.2143	-0.0868	0.4080	
30	18.14	-17.75	0.4503	-0.0407	0.2367	-0.0903	0.5257	0.4310	-0.0474	0.1842	-0.1099	0.4274	
31	18.13	-18.63	0.5786	-0.0337	0.2654	-0.0582	0.4595	0.3699	-0.0465	0.1673	-0.1258	0.4521	
32	18.13	-19.47	0.6268	-0.0338	0.2787	-0.0539	0.4447	0.3582	-0.0491	0.1653	-0.1370	0.4613	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 1

TEST	PART	MACH	RA10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
9	24	0.85	1.7	0.0	8240F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCFF3	CNF4	CH4	CB4	XCFF4	YCFF4
1	18.03	4.94	9.9999	9.9999	9.9999	9.9999	9.9999	0.8628	0.0378	0.3422	0.0438	0.3966
2	18.03	4.53	9.9999	9.9999	9.9999	9.9999	9.9999	0.8526	0.0350	0.3398	0.0411	0.3985
3	18.02	3.77	9.9999	9.9999	9.9999	9.9999	9.9999	0.8438	0.0408	0.3466	0.0461	0.3922
4	18.02	3.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.8747	0.0521	0.3349	0.0596	0.3828
5	18.02	2.26	9.9999	9.9999	9.9999	9.9999	9.9999	0.8828	0.0488	0.3414	0.0553	0.3867
6	18.02	1.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.8983	0.0457	0.3519	0.0509	0.3918
7	18.03	0.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.8908	0.0511	0.3421	0.0573	0.3841
8	18.03	0.0	9.9999	9.9999	9.9999	9.9999	9.9999	0.9054	0.0519	0.3432	0.0574	0.3790
9	18.02	-0.80	9.9999	9.9999	9.9999	9.9999	9.9999	0.9331	0.0542	0.3504	0.0581	0.3755
10	18.02	-1.62	9.9999	9.9999	9.9999	9.9999	9.9999	0.9440	0.0545	0.3502	0.0578	0.3709
11	18.02	-2.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.9576	0.0547	0.3512	0.0572	0.3667
12	18.02	-3.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.9439	0.0576	0.3424	0.0612	0.3628
13	18.03	-4.07	9.9999	9.9999	9.9999	9.9999	9.9999	0.9529	0.0565	0.3460	0.0593	0.3631
14	18.04	-4.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.8940	0.0537	0.3220	0.0600	0.3602
15	18.04	-5.60	9.9999	9.9999	9.9999	9.9999	9.9999	0.8720	0.0284	0.3216	0.0326	0.3688
16	18.03	-6.39	9.9999	9.9999	9.9999	9.9999	9.9999	0.8670	0.0276	0.3167	0.0319	0.3653
17	18.03	-7.23	9.9999	9.9999	9.9999	9.9999	9.9999	0.9321	0.0610	0.3338	0.0654	0.3581
18	18.04	-8.00	9.9999	9.9999	9.9999	9.9999	9.9999	0.9556	0.0587	0.3423	0.0615	0.3582
19	18.05	-8.81	9.9999	9.9999	9.9999	9.9999	9.9999	0.9596	0.0591	0.3414	0.0616	0.3557
20	18.07	-9.61	9.9999	9.9999	9.9999	9.9999	9.9999	0.8673	0.0248	0.3128	0.0286	0.3606
21	18.05	-10.40	9.9999	9.9999	9.9999	9.9999	9.9999	0.9412	0.0537	0.3361	0.0571	0.3571
22	18.09	-11.16	9.9999	9.9999	9.9999	9.9999	9.9999	0.7775	0.0166	0.2922	0.0216	0.3758
23	18.07	-11.97	9.9999	9.9999	9.9999	9.9999	9.9999	0.5967	0.0250	0.2466	0.0420	0.4133
24	18.08	-12.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.6603	0.0329	0.2588	0.0499	0.3920
25	18.08	-13.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.4548	0.0234	0.2153	0.0515	0.4735
26	18.10	-14.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.4281	0.1415	0.1643	0.3305	0.3837
27	18.10	-15.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.3056	0.0796	0.1417	0.2603	0.4637
28	18.11	-16.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.5714	0.2289	0.1271	0.4006	0.2225
29	18.12	-16.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.4528	0.1479	0.1083	0.3266	0.2392
30	18.14	-17.75	9.9999	9.9999	9.9999	9.9999	9.9999	0.1816	0.0833	-0.0190	0.4589	-0.1046
31	18.13	-18.63	9.9999	9.9999	9.9999	9.9999	9.9999	0.0861	0.0837	-0.1367	0.9720	-1.5878
32	18.13	-19.47	9.9999	9.9999	9.9999	9.9999	9.9999	1.0349	0.0902	-0.3710	0.0871	-0.3585

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	25	0.85	1.7	0.0	B2W2FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.80	0.01	-0.4231	-0.2245	0.0654	-0.0126	0.0030	0.1411	0.5305		
2	-2.68	0.02	-0.4245	-0.2155	0.1200	0.0900	0.0040	0.1443	0.5077		
3	-2.03	0.0	-0.2952	-0.1487	0.0181	0.0567	0.0040	0.1405	0.5038		
4	-1.41	0.01	-0.2121	-0.1060	0.0625	0.0055	0.0020	0.1435	0.5000		
5	-0.81	0.02	-0.1286	-0.0650	0.0916	0.1017	0.0030	0.1501	0.5051		
6	-0.27	0.0	-0.0162	0.0137	-0.0235	0.0279	0.0050	0.1498	-0.8444		
7	0.27	0.01	0.0609	0.0667	0.0927	0.0412	0.0010	0.1543	1.0959		
8	0.79	0.01	0.1481	0.1076	0.0535	0.0811	0.0010	0.1515	0.7269		
9	1.29	0.0	0.2322	0.1709	0.0011	0.0205	0.0050	0.1578	0.7361		
10	1.82	0.02	0.3003	0.2036	0.1587	0.0878	0.0060	0.1565	0.6779		
11	2.29	0.02	0.4012	0.2441	0.1348	0.1273	0.0070	0.1534	0.6085		
12	2.79	0.01	0.4560	0.2994	0.0803	0.0776	0.0100	0.1587	0.6566		
13	3.29	-0.01	0.5830	0.3586	-0.0287	-0.0358	0.0060	0.1539	0.6151		
14	3.79	0.02	0.6480	0.3866	0.0940	0.0924	0.0080	0.1537	0.5966		
15	4.27	0.01	0.7542	0.4319	0.0482	0.0585	0.0050	0.1542	0.5727		
16	4.74	0.01	0.8286	0.4688	0.0506	0.0092	0.0090	0.1573	0.5657		
17	5.19	0.02	0.9169	0.4871	0.1225	0.1519	0.0090	0.1556	0.5313		
18	5.66	0.01	1.0173	0.5126	0.0705	0.0203	0.0090	0.1593	0.5039		
19	6.11	0.0	1.0805	0.5451	0.0597	0.1064	0.0110	0.1601	0.5045		
20	6.56	-0.01	1.1890	0.5740	0.1626	0.1133	0.0080	0.1644	0.4828		
21	7.04	0.0	1.3039	0.6022	0.0210	0.0486	0.0110	0.1637	0.4618		
22	7.49	0.0	1.3765	0.6175	0.0975	0.0825	0.0110	0.1637	0.4486		
23	7.94	0.0	1.4645	0.6373	0.1086	0.0600	0.0110	0.1640	0.4352		
24	8.38	-0.01	1.5809	0.6614	0.0674	0.0956	0.0100	0.1610	0.4184		
25	8.85	-0.02	1.6509	0.6784	0.0239	0.0825	0.0120	0.1564	0.4109		
26	9.25	-0.02	1.7028	0.7187	0.0655	0.0473	0.0120	0.1557	0.4221		
27	9.68	-0.02	1.8186	0.7326	0.0352	0.0637	0.0130	0.1496	0.4028		
28	10.11	-0.03	1.9163	0.7397	0.0507	0.1040	0.0100	0.1508	0.3860		
29	10.52	-0.04	2.0069	0.7518	-0.0102	0.0733	0.0140	0.1453	0.3746		
30	10.92	-0.02	2.1060	0.7511	0.1340	0.0814	0.0120	0.1425	0.3566		
31	11.29	-0.02	2.1999	0.7536	0.1473	0.1298	0.0110	0.1378	0.3426		
32	11.70	-0.03	2.2971	0.7505	0.0689	0.1215	0.0150	0.1352	0.3267		
33	12.06	0.0	2.3945	0.7702	0.1061	0.0605	0.0170	0.1298	0.3216		
34	12.44	-0.01	2.4761	0.7789	0.0474	0.0226	0.0170	0.1267	0.3146		
35	12.81	-0.01	2.5737	0.7903	0.0476	0.0304	0.0170	0.1206	0.3071		
36	13.19	-0.02	2.6686	0.8094	0.0173	0.0618	0.0160	0.1200	0.3033		
37	13.53	-0.02	2.7512	0.7967	0.0109	0.0727	0.0160	0.1173	0.2917		
38	13.93	0.0	2.8514	0.7954	0.1075	0.0835	0.0150	0.1072	0.2789		
39	14.29	-0.02	2.9266	0.8321	-0.0194	0.0891	0.0170	0.1057	0.2843		
40	14.66	0.0	3.0093	0.8463	0.1060	0.1186	-0.0100	0.1045	0.2812		
41	15.01	-0.01	3.0683	0.8407	0.0492	0.1581	-0.0190	0.1083	0.2740		
42	15.35	-0.02	3.1110	0.8469	-0.0036	0.0990	0.0150	0.1079	0.2722		
43	15.71	-0.01	3.2115	0.8422	0.0419	0.1473	0.0140	0.1086	0.2623		
44	16.05	-0.01	3.2930	0.8111	0.0272	0.1949	0.0160	0.1047	0.2463		
45	16.40	-0.01	3.4487	0.7980	0.0363	0.1082	0.0080	0.1013	0.2314		
46	16.73	-0.03	3.5143	0.7832	-0.0653	0.0534	0.0100	0.1018	0.2229		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	XX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	25	0.85	1.7	0.0	B2W2F0	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.07	-0.04	3.6004	0.7996	0.0018	0.1055	0.0130	0.0941	0.2221		
48	17.40	-0.03	3.6940	0.7796	0.0796	0.1015	0.0120	0.0881	0.2110		
49	17.75	-0.04	3.7741	0.7565	-0.0235	0.0879	0.0120	0.0846	0.2004		
50	18.07	-0.03	3.8690	0.7846	0.0089	0.1565	0.0100	0.0771	0.2028		
51	18.42	-0.03	3.9532	0.7977	0.0133	0.1824	0.0130	0.0662	0.2018		
52	18.75	-0.04	4.0316	0.8000	-0.0081	0.1313	0.0160	0.0609	0.1984		
53	19.08	-0.03	4.1114	0.7982	0.0157	0.1930	0.0150	0.0566	0.1942		
54	19.42	-0.03	4.1649	0.7963	-0.0013	0.1928	0.0140	0.0477	0.1912		
55	19.73	-0.04	4.2377	0.8103	-0.0482	0.1965	-0.0130	0.0459	0.1912		
56	20.07	-0.04	4.2501	0.8169	-0.1213	0.2518	-0.0320	0.0481	0.1922		
57	20.39	-0.05	4.3063	0.8502	-0.1515	0.2446	-0.0600	0.0429	0.1974		
58	20.72	-0.03	4.3937	0.8149	-0.0150	0.3330	-0.0580	0.0401	0.1855		
59	21.07	-0.04	4.4616	0.8398	-0.1011	0.2405	-0.0550	0.0381	0.1882		
60	21.41	-0.04	4.5677	0.8653	-0.0103	0.2144	-0.0610	0.0325	0.1894		
61	21.74	-0.04	4.6002	0.8848	-0.0295	0.2853	-0.0650	0.0269	0.1923		
62	22.06	-0.04	4.6863	0.8882	-0.0663	0.2388	-0.0510	0.0188	0.1895		
63	22.39	-0.04	4.7529	0.9040	-0.0035	0.1959	-0.0590	0.0147	0.1902		
64	22.69	-0.05	4.8212	0.9214	-0.0683	0.1136	-0.0590	0.0119	0.1911		
65	22.97	-0.05	4.8459	0.9178	0.0075	0.1585	-0.0570	0.0111	0.1894		
66	23.31	-0.04	4.9231	0.9537	0.0207	0.1980	-0.0540	0.0030	0.1937		
67	23.62	-0.05	5.0136	0.9229	-0.0597	0.1826	-0.0380	-0.0023	0.1841		
68	23.96	-0.06	5.0918	0.9824	-0.0728	0.1759	-0.0250	-0.0064	0.1929		
69	24.27	-0.05	5.1459	1.0106	0.0163	0.1232	-0.0180	-0.0003	0.1964		
70	24.59	-0.05	5.1959	1.0256	-0.0140	0.1096	-0.0180	-0.0088	0.1974		
71	24.90	-0.04	5.2830	1.0477	0.0253	0.2196	-0.0200	-0.0128	0.1983		
72	25.21	-0.06	5.3923	1.1097	-0.0223	0.0502	-0.0190	-0.0196	0.2058		
73	25.52	-0.06	5.4591	1.1261	-0.0527	0.0658	-0.0180	-0.0213	0.2063		
74	25.83	-0.06	5.5485	1.1610	-0.0569	-0.0193	-0.0210	-0.0233	0.2092		
75	26.13	-0.06	5.6304	1.2333	0.0066	0.0308	-0.0320	-0.0316	0.2190		
76	26.40	-0.07	5.6797	1.2703	-0.0475	0.1100	-0.0190	-0.0333	0.2237		
77	26.71	-0.07	5.7574	1.2944	-0.0042	0.0489	-0.0260	-0.0419	0.2248		
78	27.01	-0.07	5.8371	1.3388	-0.0148	0.0237	-0.0310	-0.0452	0.2294		
79	27.32	-0.07	5.9433	1.4011	-0.0516	0.0732	-0.0290	-0.0507	0.2357		
80	27.62	-0.07	6.0032	1.4362	-0.0646	0.1114	-0.0290	-0.0605	0.2392		
81	27.94	-0.07	6.1320	1.5379	-0.0339	0.0725	-0.0330	-0.0694	0.2508		
82	28.24	-0.06	6.2248	1.5620	0.0405	0.0953	-0.0360	-0.0717	0.2509		
83	28.55	-0.07	6.3070	1.6049	-0.0337	0.1992	-0.0250	-0.0793	0.2545		
84	28.86	-0.08	6.3581	1.6683	-0.0833	0.0886	-0.0370	-0.0831	0.2624		
85	29.18	-0.07	6.4968	1.8211	-0.0202	0.0113	-0.0320	-0.0917	0.2803		
86	29.51	-0.06	6.6294	1.9493	0.2073	-0.3092	-0.0450	-0.1050	0.2940		
87	29.81	-0.07	6.6425	1.9710	0.1047	-0.2006	-0.0420	-0.1143	0.2967		
88	30.13	-0.07	6.8197	2.0999	0.0068	0.0695	-0.0460	-0.1219	0.3079		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST. PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	26	0.92	1.7	0.0	B2W2F0	16.750	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.83	0.02	-0.4307	-0.2099	0.1037	0.1018	0.0050	0.1571	0.4872	
2	-2.71	0.01	-0.3948	-0.2091	0.0730	0.0668	0.0020	0.1568	0.5296	
3	-2.09	0.03	-0.3243	-0.1670	0.1565	0.0989	0.0020	0.1585	0.5149	
4	-1.44	0.01	-0.2074	-0.0996	0.0551	0.1028	0.0020	0.1593	0.4804	
5	-0.85	0.01	-0.1055	-0.0403	0.0481	0.0337	0.0010	0.1629	0.3820	
6	-0.31	0.01	-0.0333	-0.0164	0.0447	0.0204	0.0060	0.1610	0.4919	
7	0.23	0.01	0.0550	0.0570	0.0817	0.0026	0.0020	0.1692	1.0364	
8	0.77	0.02	0.1561	0.1044	0.1282	0.0765	0.0030	0.1693	0.6692	
9	1.28	0.02	0.2320	0.1483	0.0821	0.0691	0.0040	0.1720	0.6378	
10	1.81	0.01	0.3338	0.1927	0.0939	0.0235	0.0040	0.1715	0.5772	
11	2.29	0.02	0.4008	0.2067	0.1344	0.1168	0.0080	0.1693	0.5157	
12	2.77	0.01	0.4865	0.2627	0.0345	0.0137	0.0050	0.1690	0.5400	
13	3.29	0.01	0.5775	0.3143	0.0866	0.0508	0.0090	0.1690	0.5443	
14	3.77	0.0	0.6846	0.3284	0.0600	0.0230	0.0030	0.1663	0.4797	
15	4.28	-0.01	0.8021	0.4069	-0.0149	0.0079	0.0050	0.1670	0.5073	
16	4.73	0.01	0.8534	0.4260	0.0776	0.0494	0.0030	0.1685	0.4992	
17	5.21	0.01	0.9463	0.4570	0.1605	0.1213	0.0050	0.1664	0.4829	
18	5.66	0.01	1.0314	0.4688	0.1011	0.0814	0.0030	0.1717	0.4546	
19	6.13	-0.01	1.1579	0.4896	0.0585	0.0245	0.0110	0.1752	0.4228	
20	6.59	0.0	1.2531	0.5023	0.0668	0.1225	0.0120	0.1797	0.4008	
21	7.07	0.01	1.3698	0.5359	0.1613	0.0692	0.0100	0.1800	0.3912	
22	7.52	-0.01	1.4526	0.5560	0.0461	0.0944	0.0090	0.1800	0.3828	
23	7.97	-0.01	1.5579	0.5856	0.1364	0.1360	0.0060	0.1832	0.3759	
24	8.41	-0.03	1.6527	0.5989	0.0674	0.0606	0.0090	0.1751	0.3624	
25	8.88	-0.03	1.7457	0.6157	0.1251	0.1238	0.0120	0.1756	0.3568	
26	9.29	-0.03	1.8266	0.6374	0.0656	0.0939	0.0090	0.1728	0.3490	
27	9.70	-0.03	1.9205	0.6528	0.0910	0.0536	0.0100	0.1726	0.3399	
28	10.15	-0.03	2.0020	0.6527	0.0700	0.0740	0.0140	0.1633	0.3260	
29	10.53	-0.03	2.1076	0.6729	0.0281	0.0297	0.0120	0.1674	0.3192	
30	10.96	-0.02	2.2158	0.6936	0.1013	0.0692	0.0080	0.1642	0.3129	
31	11.34	-0.04	2.2999	0.6960	-0.0213	0.0658	0.0120	0.1596	0.3029	
32	11.75	0.0	2.4035	0.7086	0.1208	0.0679	0.0100	0.1538	0.2948	
33	12.12	-0.01	2.4922	0.7104	0.0596	0.1205	0.0120	0.1519	0.2851	
34	12.52	-0.01	2.5983	0.7119	0.0310	0.1586	0.0110	0.1480	0.2740	
35	12.87	-0.01	2.6773	0.7271	0.0599	0.0751	0.0140	0.1454	0.2716	
36	13.26	-0.01	2.7910	0.7249	0.0526	0.0513	0.0080	0.1413	0.2597	
37	13.62	-0.01	2.8873	0.7411	0.0220	0.0772	0.0110	0.1385	0.2567	
38	14.00	-0.01	2.9488	0.7320	0.0566	0.0847	0.0130	0.1299	0.2482	
39	14.36	0.01	3.0291	0.7236	0.1739	0.1515	0.0050	0.1282	0.2389	
40	14.71	-0.01	3.1183	0.7487	0.0304	0.1294	-0.0050	0.1202	0.2401	
41	15.08	0.0	3.1823	0.7701	0.1380	0.1048	-0.0140	0.1178	0.2420	
42	15.42	0.0	3.2106	0.7985	0.0880	0.1068	0.0170	0.1174	0.2487	
43	15.78	-0.01	3.3165	0.8102	0.0133	0.1394	0.0150	0.1150	0.2443	
44	16.12	0.0	3.3920	0.7915	0.0884	0.1922	0.0120	0.1149	0.2334	
45	16.47	-0.02	3.4912	0.7965	-0.0668	0.1105	0.0100	0.1103	0.2281	
46	16.80	-0.01	3.5578	0.7963	0.0196	0.1625	0.0110	0.1074	0.2238	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 26.0.92 1.7 0.0 82W2F0 16.750 OFF OFF OFF OFF FIXED

PLINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP
47	17.16	-0.01	3.6802	0.7769	0.0372	0.1059	0.0060	0.1057	0.2111
48	17.49	-0.01	3.7906	0.7854	0.0507	0.0886	0.0050	0.1027	0.2072
49	17.83	-0.02	3.8615	0.8261	-0.0200	0.1750	0.0	0.0981	0.2139
50	18.16	-0.04	3.9607	0.8042	-0.0508	0.1541	0.0	0.0939	0.2031
51	18.51	-0.03	4.0635	0.8043	-0.0310	0.2414	-0.0090	0.0891	0.1979
52	18.84	-0.04	4.1540	0.8216	-0.0961	0.1805	-0.0080	0.0838	0.1978
53	19.19	-0.04	4.2509	0.8328	-0.0495	0.2088	-0.0050	0.0788	0.1959
54	19.53	-0.05	4.3177	0.8503	-0.0652	0.0873	0.0	0.0737	0.1969
55	19.83	-0.03	4.3656	0.8762	-0.0325	0.2115	-0.0010	0.0695	0.2007
56	20.18	-0.04	4.4724	0.8847	-0.0225	0.1575	-0.0090	0.0645	0.1978
57	20.50	-0.04	4.4746	0.8886	-0.0435	0.1319	-0.0150	0.0629	0.1986
58	20.86	-0.05	4.5614	0.9201	-0.0740	0.1676	-0.0780	0.0568	0.2017
59	21.18	-0.04	4.6553	0.8966	-0.0045	0.1773	-0.0190	0.0520	0.1926
60	21.52	-0.03	4.6472	0.9530	0.0036	0.2309	-0.0010	0.0499	0.2051
61	21.84	-0.05	4.7338	0.9497	-0.0870	0.2560	-0.0480	0.0478	0.2006
62	22.19	-0.05	4.8502	1.0088	-0.0424	0.2123	-0.0560	0.0400	0.2080
63	22.49	-0.04	4.8558	1.0199	0.0135	0.2231	-0.0550	0.0387	0.2100
64	22.83	-0.05	4.9501	1.0729	-0.0134	0.2087	-0.0520	0.0306	0.2167
65	23.11	-0.04	5.0197	1.0763	-0.0194	0.1098	-0.0400	0.0327	0.2144
66	23.47	-0.04	5.1637	1.1937	-0.0120	0.2202	-0.0440	0.0232	0.2312
67	23.78	-0.06	5.2325	1.1754	-0.0783	0.1146	-0.0510	0.0244	0.2246
68	24.11	-0.05	5.2995	1.3046	-0.0381	0.1293	-0.0150	0.0207	0.2462
69	24.44	-0.04	5.3884	1.3431	0.0471	0.1080	-0.0390	0.0166	0.2493
70	24.77	-0.06	5.5028	1.4219	-0.0029	-0.0189	-0.0360	0.0134	0.2584
71	25.10	-0.05	5.5753	1.5204	-0.0565	0.1741	-0.0390	0.0086	0.2727
72	25.41	-0.07	5.6586	1.5598	-0.0159	0.1202	-0.0440	0.0039	0.2756
73	25.72	-0.07	5.7501	1.6565	-0.0062	0.1157	-0.0390	-0.0012	0.2881
74	26.03	-0.07	5.8425	1.7292	-0.0751	0.1771	-0.0420	-0.0038	0.2960
75	26.34	-0.07	5.9295	1.8003	-0.0865	0.2441	-0.0430	-0.0109	0.3036
76	26.64	-0.07	5.9991	1.8509	-0.0958	0.3261	-0.0500	-0.0184	0.3085
77	26.95	-0.07	6.1300	1.9466	-0.0977	0.3287	-0.0430	-0.0298	0.3176
78	27.23	-0.07	6.1655	1.9719	-0.0842	0.2199	-0.0430	-0.0334	0.3198
79	27.55	-0.06	6.2662	2.0519	-0.0052	0.1933	-0.0430	-0.0437	0.3275
80	27.85	-0.07	6.3333	2.0760	-0.0842	0.1729	-0.0420	-0.0492	0.3278
81	28.18	-0.08	6.4016	2.1684	-0.1323	0.2412	-0.0430	-0.0601	0.3356
82	28.48	-0.09	6.5427	2.2627	-0.1497	0.1126	-0.0420	-0.0849	0.3458
83	28.78	-0.06	6.6312	2.3008	-0.0162	0.2356	-0.0420	-0.0728	0.3470
84	29.12	-0.08	6.7657	2.4054	-0.0759	0.0423	-0.0520	-0.0827	0.3555
85	29.43	-0.07	6.8872	2.5333	0.1164	-0.2959	-0.0530	-0.0776	0.3678
86	29.76	-0.06	7.0592	2.5565	0.1112	-0.1137	-0.0690	-0.0911	0.3622
87	30.07	0.01	7.1226	2.6308	0.4940	0.2562	-0.0840	-0.1007	0.3694

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION
6	27	0.97	1.7	0.0	82W2F0	16.750	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.84	-0.01	-0.4237	-0.2277	0.0267	0.1146	0.0040	0.2185	0.5372	
2	-2.55	0.0	-0.3868	-0.2059	0.1067	0.0436	0.0	0.2168	0.5407	
3	-1.99	-0.01	-0.3102	-0.1467	0.0419	0.0193	0.0050	0.2209	0.4730	
4	-1.35	-0.02	-0.1817	-0.0886	0.0882	0.0625	0.0010	0.2222	0.4877	
5	-0.77	-0.02	-0.1103	-0.0386	0.1231	0.0167	0.0050	0.2216	0.3498	
6	-0.24	-0.02	-0.0227	0.0118	0.1075	0.1195	0.0010	0.2241	-0.5189	
7	0.33	0.01	0.0652	0.0691	0.2235	-0.0089	0.0060	0.2261	0.7749	
8	0.84	-0.01	0.1466	0.1067	0.0916	0.1027	0.0030	0.2294	0.7282	
9	1.37	-0.01	0.2860	0.1796	0.1988	-0.0073	0.0030	0.2364	0.6280	
10	1.88	-0.01	0.3448	0.2143	0.1752	0.0157	0.0060	0.2319	0.6215	
11	2.38	-0.01	0.4272	0.2627	0.1701	0.0569	0.0080	0.2330	0.6150	
12	2.87	-0.04	0.5097	0.2952	0.0091	0.0213	0.0070	0.2329	0.5792	
13	3.38	-0.03	0.5977	0.3230	0.0050	0.0871	0.0060	0.2292	0.5404	
14	3.86	-0.02	0.7202	0.3735	0.0673	0.1158	0.0050	0.2297	0.5186	
15	4.32	-0.03	0.7734	0.3940	0.0508	0.0649	0.0080	0.2273	0.5095	
16	4.81	-0.03	0.8924	0.4264	0.0532	0.0585	0.0070	0.2320	0.4779	
17	5.27	-0.03	0.9670	0.4760	0.0732	0.0145	0.0100	0.2344	0.4923	
18	5.75	-0.04	1.0995	0.5015	0.0302	0.0167	0.0080	0.2408	0.4561	
19	6.20	-0.04	1.1593	0.5346	0.0754	-0.0136	0.0120	0.2499	0.4611	
20	6.68	-0.03	1.2574	0.5363	0.1350	0.0920	0.0080	0.2466	0.4205	
21	7.14	-0.03	1.3736	0.5756	0.1154	0.0654	0.0080	0.2475	0.4190	
22	7.60	-0.05	1.4778	0.5897	0.0255	0.0083	0.0110	0.2490	0.3991	
23	8.04	-0.03	1.5281	0.6063	0.1841	0.0163	0.0090	0.2422	0.3968	
24	8.48	-0.02	1.6010	0.6022	0.1374	0.1536	0.0140	0.2447	0.3762	
25	8.96	-0.03	1.7434	0.6519	0.0603	0.1736	0.0100	0.2353	0.3739	
26	9.36	-0.05	1.8361	0.6651	0.0749	0.2221	0.0110	0.2378	0.3622	
27	9.79	-0.05	1.9354	0.6809	0.0625	-0.0055	0.0130	0.2320	0.3518	
28	10.21	-0.04	2.0036	0.6875	0.0625	0.0995	0.0140	0.2268	0.3431	
29	10.63	-0.07	2.1374	0.7171	0.1151	0.0788	0.0100	0.2262	0.3355	
30	11.03	-0.07	2.2085	0.7076	0.0144	0.0798	0.0120	0.2213	0.3204	
31	11.43	0.0	2.3471	0.7275	0.0759	0.0777	0.0100	0.2147	0.3100	
32	11.84	-0.03	2.4411	0.7259	0.0581	0.1156	0.0080	0.2123	0.2974	
33	12.20	-0.02	2.5022	0.7234	0.1015	0.1869	0.0110	0.2105	0.2891	
34	12.59	-0.02	2.5976	0.7138	0.0890	0.0954	0.0120	0.2029	0.2748	
35	12.96	-0.03	2.7506	0.7515	-0.0403	0.0744	0.0100	0.2021	0.2732	
36	13.33	0.0	2.8381	0.7370	0.1201	0.1128	0.0120	0.1968	0.2597	
37	13.70	0.0	2.9636	0.7183	0.0663	0.1492	0.0110	0.1911	0.2424	
38	14.11	-0.02	3.0661	0.7498	0.0251	0.1208	0.0100	0.1881	0.2445	
39	14.47	-0.04	3.1458	0.7582	0.0415	0.1509	0.0100	0.1878	0.2410	
40	14.82	-0.02	3.2671	0.7564	0.0291	0.2252	0.0090	0.1803	0.2315	
41	15.18	-0.03	3.3174	0.7180	0.0652	0.0567	0.0130	0.1754	0.2164	
42	15.56	-0.01	3.4683	0.7396	0.1252	0.1717	0.0100	0.1718	0.2132	
43	15.91	-0.02	3.5426	0.7456	-0.0311	0.1775	0.0120	0.1687	0.2105	
44	16.23	-0.02	3.6101	0.7301	0.0839	0.0745	0.0110	0.1634	0.2022	
45	16.59	-0.03	3.7324	0.7538	-0.0115	0.1351	0.0110	0.1612	0.2020	
46	16.91	-0.05	3.7872	0.7361	-0.0150	0.2150	0.0120	0.1576	0.1944	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	27	0.97	1.7	0.0	B2W2FO	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.27	-0.06	3.8680	0.7660	-0.0617	0.0404	0.0120	0.1538	0.1940		
48	17.60	-0.04	3.9516	0.7700	-0.0053	0.1840	0.0110	0.1453	0.1948		
49	17.95	-0.04	4.0456	0.7978	0.0036	0.0879	0.0090	0.1411	0.1958		
50	18.28	-0.04	4.1576	0.8216	0.0255	0.1023	0.0070	0.1366	0.1976		
51	18.63	-0.05	4.2433	0.8204	-0.0303	0.1044	0.0100	0.1301	0.1933		
52	18.96	-0.05	4.2927	0.9293	-0.0388	0.2143	-0.0190	0.1188	0.2165		
53	19.32	-0.03	4.3455	0.9683	0.0333	0.2413	-0.0120	0.1187	0.2228		
54	19.65	-0.04	4.4093	0.9700	0.0154	0.1614	-0.0130	0.1095	0.2200		
55	19.97	-0.05	4.5160	1.0086	-0.0725	0.1555	-0.0160	0.1084	0.2233		
56	20.32	-0.03	4.5861	1.0385	0.0012	0.2043	-0.0060	0.1062	0.2264		
57	20.65	-0.05	4.6628	1.0811	-0.0561	0.1335	-0.0110	0.1025	0.2319		
58	21.00	-0.05	4.7191	1.1413	-0.0347	0.0726	0.0100	0.0930	0.2418		
59	21.34	-0.05	4.8712	1.2313	-0.0543	0.1670	0.0070	0.0807	0.2528		
60	21.69	-0.04	4.9178	1.2621	0.0629	0.1889	0.0180	0.0797	0.2566		
61	22.02	-0.04	5.0059	1.3106	0.0253	0.1326	0.0040	0.0700	0.2618		
62	22.36	-0.05	5.0954	1.3713	-0.0401	0.1681	0.0100	0.0644	0.2691		
63	22.69	-0.06	5.2161	1.4833	0.0764	0.0240	0.0060	0.0583	0.2844		
64	23.02	-0.07	5.3304	1.5863	0.0188	0.0517	-0.0020	0.0548	0.2976		
65	23.33	-0.06	5.3639	1.6114	0.0621	-0.0129	0.0010	0.0547	0.3004		
66	23.65	-0.07	5.4581	1.7245	-0.0222	0.1421	-0.0100	0.0530	0.3159		
67	23.99	-0.05	5.5762	1.8061	-0.0489	0.1824	-0.0090	0.0500	0.3239		
68	24.33	-0.04	5.6944	1.9156	0.0967	-0.0124	-0.0080	0.0441	0.3364		
69	24.66	-0.07	5.7791	1.9909	-0.0215	0.1091	-0.0120	0.0395	0.3445		
70	24.99	-0.06	5.8533	2.0820	0.0895	-0.0439	-0.0230	0.0294	0.3557		
71	25.28	-0.07	5.8889	2.1021	0.0219	-0.0127	-0.0260	0.0300	0.3570		
72	25.64	-0.08	6.0284	2.1608	-0.0585	0.0669	-0.0240	0.0210	0.3584		
73	25.93	-0.08	6.1361	2.1970	-0.0584	0.0877	-0.0230	0.0174	0.3581		
74	26.22	-0.08	6.1886	2.2875	-0.1031	0.1943	-0.0280	0.0056	0.3696		
75	26.57	-0.09	6.3207	2.4046	-0.0707	0.0260	-0.0310	0.0064	0.3804		
76	26.86	-0.06	6.3869	2.5089	-0.0293	0.2760	-0.0320	0.0007	0.3928		
77	27.16	-0.06	6.5531	2.7610	0.0270	0.1302	-0.0430	-0.0101	0.4213		
78	27.52	-0.05	6.7618	2.8728	0.0395	0.2151	-0.0400	-0.0151	0.4249		
79	27.80	-0.04	6.7470	2.9096	0.0292	0.1531	-0.0440	-0.0164	0.4312		
80	28.09	-0.06	6.8479	3.0083	-0.0336	0.0810	-0.0430	-0.0128	0.4393		
81	28.47	-0.04	7.0458	3.2752	0.0354	0.1244	-0.0670	-0.0295	0.4616		
82	28.77	-0.06	7.1407	3.3233	0.1736	-0.2440	-0.0740	-0.0323	0.4654		
83	29.09	-0.08	7.1914	3.3633	-0.0914	0.1649	-0.0650	-0.0400	0.4677		
84	29.38	-0.06	7.2095	3.3170	-0.0111	0.1615	-0.0580	-0.0531	0.4601		
85	29.71	-0.05	7.3441	3.4944	0.1487	-0.0902	-0.0620	-0.0522	0.4758		
86	30.03	-0.06	7.4122	3.5711	0.1725	-0.2735	-0.0710	-0.0611	0.4818		
87	30.34	-0.07	7.5287	3.6399	0.1241	-0.2597	-0.0610	-0.0730	0.4835		
88	30.68	-0.07	7.7109	3.8688	0.1390	-0.4255	-0.0680	-0.0792	0.5017		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		28	1.01	1.7	0.0	82M2F0	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP			
1	-2.86	0.0	-0.4689	-0.2364	0.0689	0.0975	0.0040	0.2727	0.5041			
2	-2.53	0.01	-0.4040	-0.2142	0.1235	0.0495	0.0040	0.2669	0.5302			
3	-1.96	-0.03	-0.2904	-0.1464	-0.0309	0.0763	0.0050	0.2173	0.5043			
4	-1.35	0.04	-0.2425	-0.1075	0.1913	0.1792	0.0070	0.2858	0.4433			
5	-0.76	0.01	-0.1306	-0.0602	0.0993	0.0500	0.0070	0.2848	0.4606			
6	-0.18	0.03	-0.0198	0.0087	0.1211	0.1344	0.0070	0.2727	-0.4404			
7	0.35	0.02	0.1004	0.0864	0.1046	0.0985	0.0040	0.2800	0.6610			
8	0.90	0.03	0.1599	0.1471	0.1603	0.0666	0.0060	0.2851	0.9202			
9	1.39	0.03	0.2435	0.1901	0.1195	0.1387	0.0030	0.2843	0.7807			
10	1.91	0.01	0.3580	0.2488	0.0590	0.0014	0.0080	0.2878	0.6950			
11	2.42	0.02	0.4710	0.3094	0.0707	-0.0100	0.0070	0.2858	0.6569			
12	2.91	0.02	0.5386	0.3538	0.0873	0.1138	0.0060	0.2873	0.6568			
13	3.43	0.01	0.6303	0.3964	0.0464	0.0730	0.0110	0.2955	0.6289			
14	3.89	0.02	0.7075	0.3983	0.0877	0.1302	0.0080	0.2995	0.5630			
15	4.39	0.0	0.8275	0.4413	0.1057	0.0230	0.0080	0.2952	0.5333			
16	4.85	0.03	0.9318	0.4713	0.1283	0.0734	0.0090	0.2956	0.5058			
17	5.32	-0.01	1.0040	0.5112	0.0278	0.0981	0.0100	0.2991	0.5092			
18	5.80	0.01	1.1385	0.5489	0.0429	0.0899	0.0100	0.2993	0.4821			
19	6.24	0.01	1.1796	0.5552	0.1557	0.0560	0.0140	0.3080	0.4707			
20	6.71	-0.05	1.3008	0.6235	-0.0825	0.0145	0.0150	0.3087	0.4793			
21	7.19	-0.02	1.3960	0.6272	0.1248	0.1313	0.0110	0.3132	0.4493			
22	7.64	-0.01	1.4577	0.6689	0.0287	0.0598	0.0140	0.3093	0.4588			
23	8.12	-0.09	1.6290	0.6930	0.0192	0.0771	0.0110	0.3110	0.4254			
24	8.55	-0.04	1.6731	0.7113	0.0089	0.0605	0.0100	0.3033	0.4251			
25	9.02	0.02	1.7458	0.7555	-0.0070	0.0538	0.0130	0.3020	0.4231			
26	9.42	-0.06	1.8414	0.7477	0.0427	0.1162	0.0150	0.2920	0.4060			
27	9.85	-0.02	1.9426	0.7638	-0.1274	0.0704	0.0160	0.2835	0.3932			
28	10.28	-0.03	2.0623	0.7913	0.1310	0.1416	0.0160	0.2653	0.3837			
29	10.70	-0.09	2.1615	0.7904	-0.1008	0.0211	0.0130	0.2603	0.3657			
30	11.10	0.01	2.2346	0.8040	0.0170	0.1352	0.0160	0.2656	0.3598			
31	11.53	-0.03	2.3400	0.8435	0.0704	0.0904	0.0170	0.2671	0.3605			
32	11.90	0.06	2.4129	0.8724	0.0091	0.2352	0.0130	0.2646	0.3616			
33	12.29	0.02	2.5265	0.9094	0.0707	0.1360	0.0160	0.2607	0.3599			
34	12.68	0.0	2.6494	0.9193	0.0980	0.1799	0.0140	0.2519	0.3470			
35	13.04	-0.02	2.7018	0.9398	0.0096	0.1095	0.0170	0.2591	0.3478			
36	13.43	0.02	2.8560	0.9489	0.0673	0.1908	0.0140	0.2689	0.3323			
37	13.78	-0.02	2.8885	0.9254	0.0869	0.1813	0.0160	0.2606	0.3218			
38	14.18	0.0	2.9878	0.9324	0.0657	0.2190	0.0160	0.2453	0.3121			
39	14.53	0.02	3.0536	0.9463	0.0528	0.2191	0.0130	0.2359	0.3099			
40	14.92	-0.02	3.2170	0.9965	-0.0515	0.0551	0.0130	0.2309	0.3098			
41	15.29	0.0	3.2895	1.0140	-0.0662	0.2356	0.0140	0.2315	0.3083			
42	15.64	0.02	3.3389	1.0438	0.0288	0.2007	0.0160	0.2238	0.3126			
43	16.01	0.0	3.4384	1.0425	0.0126	0.2503	0.0140	0.2179	0.3032			
44	16.33	0.02	3.5491	1.0254	0.0391	0.2172	0.0140	0.2169	0.2889			
45	16.69	-0.01	3.6849	1.0103	0.0460	0.1366	0.0130	0.2039	0.2742			
46	17.02	-0.02	3.7880	1.0080	0.0709	0.1747	0.0140	0.2110	0.2925			

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	28	1.01	1.7	0.0	B2W2F0	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP		
47	17.38	0.0	3.8417	1.0948	0.1189	0.2985	0.0160	0.2083	0.2850		
48	17.71	0.0	3.9381	1.1418	-0.0572	0.2500	0.0180	0.2203	0.2899		
49	18.06	0.03	4.0498	1.1524	0.1320	0.2352	0.0160	0.2223	0.2846		
50	18.41	-0.04	4.1541	1.1754	-0.0187	0.1912	0.0110	0.2323	0.2839		
51	18.75	0.0	4.2623	1.2218	0.0012	0.2843	0.0110	0.2437	0.2866		
52	19.08	-0.01	4.3112	1.2393	0.0290	0.1344	0.0120	0.2354	0.2875		
53	19.43	-0.05	4.3776	1.2494	-0.1126	0.2636	0.0100	0.2110	0.2854		
54	19.79	-0.04	4.5000	1.2820	-0.1156	0.0948	0.0130	0.2222	0.2849		
55	20.11	-0.01	4.5462	1.3313	0.0049	0.1901	0.0160	0.2134	0.2928		
56	20.45	0.01	4.6179	1.3969	0.1113	0.2801	0.0090	0.2147	0.3012		
57	20.79	0.0	4.6920	1.4392	0.0690	0.1764	0.0070	0.1837	0.3067		
58	21.12	-0.01	4.7790	1.4374	0.1703	0.2106	0.0090	0.1731	0.3008		
59	21.48	-0.04	4.8952	1.5297	0.0237	-0.0232	0.0060	0.1659	0.3125		
60	21.83	-0.06	5.0476	1.5612	-0.0967	0.2443	0.0050	0.1769	0.3093		
61	22.17	-0.04	5.0713	1.6450	-0.0365	0.2161	0.0130	0.1634	0.3244		
62	22.51	-0.04	5.2277	1.7150	0.0031	0.1466	0.0010	0.1465	0.3281		
63	22.83	-0.01	5.2646	1.7264	0.1076	0.1643	0.0150	0.1482	0.3279		
64	23.15	-0.01	5.4014	1.7528	0.1064	0.1000	0.0070	0.1294	0.3245		
65	23.48	-0.04	5.5123	1.7736	0.0052	0.2347	0.0050	0.1516	0.3217		
66	23.82	-0.04	5.6432	1.8023	0.0479	0.0639	0.0080	0.1487	0.3194		
67	24.11	-0.02	5.6983	1.8502	0.1330	0.1638	0.0070	0.1392	0.3247		
68	24.47	-0.05	5.8557	1.9966	0.0011	0.1274	-0.0020	0.1240	0.3410		
69	24.82	-0.04	5.9900	2.0196	0.0306	0.1741	0.0090	0.1378	0.3372		
70	25.13	-0.04	6.0571	2.0107	0.0553	0.1066	0.0020	0.1400	0.3320		
71	25.47	-0.04	6.2072	2.1155	0.1024	-0.0421	-0.0040	0.1446	0.3408		
72	25.81	-0.06	6.3117	2.1552	-0.0503	0.1224	0.0080	0.1219	0.3415		
73	26.12	-0.06	6.4423	2.1624	0.0591	0.0223	0.0070	0.1244	0.3357		
74	26.41	-0.08	6.4702	2.4273	-0.0449	0.0119	-0.0050	0.1164	0.3752		
75	26.77	-0.05	6.6102	2.5381	0.1577	-0.1048	-0.0190	0.1124	0.3840		
76	27.07	-0.06	6.7351	2.7112	-0.0021	0.1019	-0.0100	0.1148	0.4026		
77	27.36	-0.06	6.8335	2.7925	0.0666	0.0528	-0.0110	0.1067	0.4086		

PAGE 1 of 1
 SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	29	1.05	1.7	0.0	82W2FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.85	0.0	-0.4390	-0.2772	-0.0197	0.0626	0.0090	0.3036	0.6314		
2	-2.51	0.0	-0.4057	-0.2888	0.1019	0.1113	0.0070	0.2923	0.7119		
3	-1.93	0.01	-0.2982	-0.2275	0.1556	0.0901	0.0050	0.2962	0.7630		
4	-1.32	0.0	-0.2120	-0.1552	0.0939	0.1005	0.0070	0.3105	0.7321		
5	-0.73	0.03	-0.1172	-0.1039	0.0944	0.1548	0.0080	0.3188	0.8867		
6	-0.15	0.02	-0.0163	-0.0122	0.0905	0.1193	0.0100	0.3207	0.7472		
7	0.37	0.02	0.0689	0.0425	0.0843	0.0300	0.0080	0.3485	0.6174		
8	0.94	-0.01	0.1955	0.1213	-0.0480	0.0692	0.0090	0.3593	0.6205		
9	1.42	0.02	0.2667	0.1566	0.1351	0.0719	0.0100	0.3630	0.5873		
10	1.96	0.01	0.3550	0.2110	0.1905	0.0423	0.0090	0.3544	0.5944		
11	2.46	0.0	0.4503	0.2484	0.0508	0.1209	0.0060	0.3557	0.5516		
12	2.97	0.01	0.5367	0.3034	0.0783	0.0134	0.0070	0.3448	0.5653		
13	3.46	-0.01	0.6588	0.3415	0.0008	0.1079	0.0120	0.3418	0.5183		
14	3.94	-0.01	0.7594	0.3747	0.0771	-0.0144	0.0110	0.3351	0.4934		
15	4.42	0.03	0.8147	0.3992	0.1900	0.1160	0.0120	0.3406	0.4900		
16	4.88	0.03	0.9203	0.4284	0.1681	0.0087	0.0110	0.3452	0.4655		
17	5.37	0.02	1.0088	0.4665	0.0584	0.1692	0.0170	0.3448	0.4624		
18	5.84	0.02	1.1635	0.4888	0.0893	0.0810	0.0100	0.3463	0.4201		
19	6.31	0.03	1.2381	0.5193	0.0434	0.1102	0.0080	0.3562	0.4194		
20	6.76	0.05	1.3116	0.5594	0.1436	0.0620	0.0140	0.3585	0.4265		
21	7.25	-0.01	1.4098	0.5919	-0.0863	0.1158	0.0130	0.3616	0.4199		
22	7.70	-0.06	1.5101	0.5915	-0.0703	0.1154	0.0130	0.3450	0.3917		
23	8.17	-0.09	1.5711	0.5741	0.0106	0.0012	0.0130	0.3276	0.3654		
24	8.62	-0.06	1.7025	0.6111	-0.0114	0.0400	0.0170	0.3232	0.3590		
25	9.06	0.01	1.7501	0.6555	0.0908	0.0549	0.0120	0.3187	0.3746		
26	9.48	0.05	1.8879	0.6796	0.0975	0.1915	0.0140	0.3092	0.3600		
27	9.92	-0.02	1.9861	0.6950	0.0018	0.0595	0.0140	0.2955	0.3499		
28	10.33	0.09	2.0511	0.7544	0.0436	0.2219	0.0170	0.2968	0.3681		
29	10.74	0.06	2.1272	0.7544	0.1575	0.1705	0.0150	0.2990	0.3546		
30	11.16	-0.04	2.2379	0.7864	0.0520	0.1562	0.0160	0.3123	0.3514		
31	11.57	-0.03	2.3557	0.7715	0.0539	0.1365	0.0140	0.3124	0.3275		
32	11.97	0.02	2.4621	0.7915	0.1309	0.2177	0.0130	0.3202	0.3215		
33	12.32	-0.02	2.5077	0.7867	-0.0258	0.0741	0.0170	0.3184	0.3137		
34	12.71	0.0	2.6123	0.7833	0.0956	0.1201	0.0210	0.3245	0.2998		
35	13.10	-0.01	2.7275	0.7888	0.0474	0.0649	0.0230	0.3288	0.2842		
36	13.47	0.0	2.8529	0.7953	0.0482	0.1825	0.0170	0.3176	0.2788		
37	13.84	0.01	2.9337	0.7982	0.0196	0.1405	0.0190	0.3160	0.2721		
38	14.23	0.0	3.0409	0.7921	-0.0579	0.2110	0.0150	0.3165	0.2605		
39	14.58	-0.04	3.0679	0.8113	-0.0008	0.0861	0.0190	0.3079	0.2644		
40	14.97	0.0	3.1719	0.8727	-0.0544	0.1241	0.0140	0.2944	0.2751		
41	15.34	-0.02	3.2706	0.8595	-0.0115	0.1411	0.0150	0.2934	0.2628		
42	15.69	0.02	3.3264	0.9484	0.0698	0.2442	0.0160	0.2846	0.2851		
43	16.07	-0.01	3.4636	0.9571	-0.0080	0.1392	0.0160	0.2573	0.2763		
44	16.39	-0.02	3.5138	1.0209	-0.0621	0.2269	0.0220	0.2402	0.2905		
45	16.76	0.02	3.6585	1.0703	0.2321	0.2740	0.0150	0.2415	0.2925		
46	17.08	-0.01	3.7241	1.0524	-0.0476	0.1166	0.0210	0.2530	0.2826		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	XX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	29	1.05	1.7	0.0	0.2W2F0	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	LY	CLN	CLL	CAF	XCP		
47	17.43	-0.03	3.8293	1.0751	0.0438	0.1947	0.0180	0.2531	0.2808		
48	17.78	0.0	3.9860	1.0408	-0.0644	0.1441	0.0170	0.2769	0.2611		
49	18.10	0.02	4.0311	1.0526	0.0404	0.2537	0.0170	0.2877	0.2611		
50	18.45	-0.02	4.1428	1.0332	-0.0717	0.2623	0.0140	0.2872	0.2494		
51	18.79	-0.02	4.2318	1.0975	0.0506	0.1261	0.0190	0.2789	0.2593		
52	19.16	0.0	4.3216	1.0758	0.0729	0.2679	0.0170	0.2886	0.2489		
53	19.49	-0.02	4.3737	1.0668	0.0556	0.1221	0.0160	0.2924	0.2485		
54	19.83	-0.04	4.4761	1.1545	-0.0058	0.1491	0.0140	0.2870	0.2579		
55	20.16	-0.01	4.5099	1.1601	-0.0089	0.1374	0.0150	0.2844	0.2572		
56	20.48	-0.02	4.5751	1.1269	0.0574	0.1826	0.0140	0.2716	0.2463		
57	20.84	-0.01	4.6768	1.2025	0.0355	0.0763	0.0130	0.2527	0.2571		
58	21.16	-0.01	4.7263	1.2312	0.0072	0.2019	0.0130	0.2446	0.2605		
59	21.56	-0.03	4.9152	1.3337	-0.0617	0.1794	0.0090	0.2388	0.2713		
60	21.89	-0.01	4.9961	1.3443	0.0315	0.0779	0.0060	0.2366	0.2691		
61	22.22	-0.03	5.0925	1.4403	0.0301	0.0968	0.0090	0.2250	0.2828		
62	22.55	-0.04	5.1393	1.4658	0.0065	0.1219	0.0100	0.2183	0.2852		
63	22.86	-0.04	5.2212	1.4921	0.0620	0.0242	0.0080	0.2116	0.2858		
64	23.19	-0.05	5.4078	1.5349	-0.0419	0.1256	0.0070	0.2038	0.2838		
65	23.53	-0.03	5.4753	1.5824	0.0846	0.1195	0.0070	0.2018	0.2890		
66	23.88	-0.04	5.6315	1.5947	-0.0194	0.1451	0.0080	0.1986	0.2832		
67	24.18	-0.03	5.6949	1.6469	0.0802	0.1457	0.0060	0.1857	0.2892		
68	24.52	-0.06	5.7831	1.6673	0.0281	0.0287	0.0130	0.1921	0.2883		
69	24.88	-0.06	5.9794	1.7925	0.0901	0.0009	0.0050	0.1944	0.2998		
70	25.24	-0.06	6.1285	1.9057	0.1220	-0.0748	-0.0010	0.1993	0.3110		
71	25.53	-0.06	6.1770	1.9048	0.0981	-0.0603	0.0040	0.2002	0.3084		
72	25.87	-0.03	6.3027	1.9208	0.1721	-0.1029	0.0120	0.1915	0.3048		
73	26.18	-0.05	6.4000	2.1016	0.1473	-0.0492	-0.0010	0.1804	0.3284		
74	26.49	-0.06	6.5206	2.2066	0.0878	0.0011	-0.0040	0.1822	0.3384		
75	26.82	-0.07	6.6283	2.2958	-0.0533	0.2836	-0.0060	0.1810	0.3464		

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	30	1.10	1.7	0.0	82W2F0	16.750	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CLN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.85	-0.02	-0.4368	-0.1993	0.0877	0.0472	0.0040	0.3175	0.4563	
2	-2.47	0.0	-0.3566	-0.1897	0.1035	0.0491	0.0080	0.3168	0.5321	
3	-1.88	0.02	-0.2949	-0.1211	0.0377	0.1282	0.0120	0.3202	0.4108	
4	-1.27	0.06	-0.1961	-0.0585	0.1634	0.0852	0.0100	0.3269	0.2981	
5	-0.68	0.02	-0.0623	0.0022	0.0655	0.0903	0.0080	0.3178	-0.0356	
6	-0.14	0.01	0.0138	0.0437	0.0627	0.0712	0.0090	0.3260	3.1652	
7	0.41	0.03	0.0584	0.0882	-0.0235	0.1969	0.0120	0.3294	1.5110	
8	0.94	0.03	0.1778	0.1331	0.1387	0.0878	0.0110	0.3159	0.7485	
9	1.46	0.02	0.2814	0.1790	0.1236	0.0180	0.0100	0.3210	0.6362	
10	1.97	0.02	0.3425	0.2345	0.0758	0.0499	0.0130	0.3261	0.6847	
11	2.50	0.03	0.4429	0.2698	0.1440	0.0814	0.0090	0.3162	0.6542	
12	2.98	0.0	0.5277	0.3200	0.0299	0.1591	0.0090	0.3066	0.6064	
13	3.46	0.02	0.6479	0.3338	0.0721	0.1130	0.0090	0.3109	0.5151	
14	3.97	0.02	0.7688	0.3885	0.0956	0.0881	0.0090	0.3233	0.5053	
15	4.43	0.01	0.8171	0.4299	0.1360	0.1366	0.0130	0.3346	0.5261	
16	4.90	0.05	0.9197	0.4642	0.0944	0.1818	0.0110	0.3510	0.5048	
17	5.39	0.02	1.0111	0.5083	0.2076	0.0993	0.0120	0.3546	0.5027	
18	5.87	-0.02	1.0999	0.5349	0.1612	0.0643	0.0110	0.3633	0.4864	
19	6.33	0.0	1.2110	0.6092	0.0593	0.1570	0.0130	0.3840	0.5031	
20	6.78	-0.03	1.3027	0.5799	0.0007	0.0670	0.0120	0.3721	0.4451	
21	7.26	0.06	1.3679	0.6306	0.2341	0.1142	0.0100	0.3753	0.4610	
22	7.72	0.03	1.5027	0.6369	0.1370	0.0392	0.0160	0.3706	0.4238	
23	8.19	-0.04	1.5364	0.6597	0.0692	0.0951	0.0110	0.3736	0.4294	
24	8.64	0.04	1.6670	0.7038	-0.0680	0.1392	0.0140	0.3734	0.4222	
25	9.06	-0.09	1.7642	0.7107	0.0525	0.1445	0.0180	0.3679	0.4029	
26	9.51	0.01	1.8594	0.7535	0.1424	0.2356	0.0110	0.3740	0.4052	
27	9.91	-0.07	1.9610	0.7421	-0.1106	0.1408	0.0160	0.3653	0.3784	
28	10.35	0.02	2.0508	0.7734	0.1315	0.0287	0.0170	0.3605	0.3771	
29	10.76	0.04	2.1329	0.8044	0.1795	0.2117	0.0190	0.3667	0.3771	
30	11.18	-0.03	2.2148	0.8078	-0.1425	0.1585	0.0200	0.3619	0.3647	
31	11.58	0.01	2.2834	0.8207	0.1324	0.1826	0.0160	0.3554	0.3594	
32	11.98	-0.01	2.3865	0.8334	-0.1174	0.2183	0.0130	0.3597	0.3492	
33	12.34	0.04	2.4538	0.8072	0.1172	0.2259	0.0150	0.3428	0.3289	
34	12.70	0.02	2.5008	0.8274	0.0308	0.1649	0.0160	0.3404	0.3308	
35	13.11	-0.01	2.6421	0.8245	0.0620	0.2632	0.0160	0.3255	0.3121	
36	13.46	-0.02	2.7436	0.8163	-0.0260	0.1644	0.0190	0.3194	0.2975	
37	13.87	-0.01	2.8987	0.8581	0.0566	0.1455	0.0160	0.3096	0.2960	
38	14.22	0.03	2.9443	0.8503	0.1388	0.1967	0.0170	0.3236	0.2888	
39	14.60	-0.01	3.0363	0.8745	0.0102	0.2167	0.0180	0.3305	0.2880	
40	14.97	0.04	3.1449	0.8805	-0.0578	0.2089	0.0220	0.3177	0.2800	
41	15.33	0.01	3.2004	0.9178	0.0832	0.3265	0.0250	0.3335	0.2868	
42	15.71	0.01	3.3831	0.9470	0.1593	0.0920	0.0210	0.3346	0.2799	
43	16.05	0.01	3.3778	0.9464	-0.0046	0.2224	0.0220	0.3432	0.2920	
44	16.41	0.0	3.4806	0.9823	-0.0443	0.2220	0.0190	0.3355	0.2822	
45	16.74	0.02	3.5590	1.0236	0.0172	0.2139	0.0230	0.3243	0.2876	
46	17.09	-0.04	3.6756	1.0203	-0.0455	0.0817	0.0190	0.3165	0.2776	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER/NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	30	1.10	1.7	0.0	B2W2F0	16.750	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	17.44	0.02	3.7691	1.0164	0.0516	0.1437	0.0170	0.3065	0.2697	
48	17.76	0.01	3.8292	1.0403	0.0641	0.2102	0.0160	0.2954	0.2717	
49	18.12	-0.01	3.9515	1.0861	0.1060	0.1986	0.0170	0.2909	0.2748	
50	18.45	0.0	4.0621	1.0822	0.0602	0.1827	0.0110	0.2896	0.2664	
51	18.79	-0.03	4.0828	1.0812	0.0850	0.2350	0.0130	0.2674	0.2648	
52	19.14	0.03	4.2024	1.2088	0.1163	0.1702	0.0100	0.2935	0.2876	
53	19.50	0.02	4.2823	1.1688	0.0157	0.1980	0.0140	0.2825	0.2729	
54	19.82	-0.01	4.3102	1.2567	-0.1326	0.1276	0.0130	0.3026	0.2916	
55	20.16	-0.01	4.4336	1.3080	0.0779	0.2099	0.0110	0.2952	0.2950	
56	20.51	-0.07	4.5105	1.3453	-0.1284	0.1897	0.0080	0.2984	0.2983	
57	20.85	-0.09	4.6231	1.3376	-0.1450	0.2290	0.0150	0.2940	0.2893	
58	21.20	-0.03	4.6818	1.4155	-0.1218	0.2065	0.0040	0.2800	0.3023	
59	21.57	-0.05	4.8688	1.4836	0.0754	0.1814	0.0090	0.2705	0.3047	
60	21.91	-0.02	4.9134	1.5322	0.1617	0.1356	0.0050	0.2609	0.3118	
61	22.23	-0.03	4.9825	1.5543	0.0232	0.2205	0.0070	0.2516	0.3120	
62	22.54	-0.01	4.9342	1.5749	0.0644	0.1291	0.0070	0.2466	0.3160	
63	22.88	-0.06	5.0666	1.6586	0.0574	0.1266	0.0030	0.2385	0.3274	
64	23.22	-0.03	5.2791	1.7381	0.0824	0.0976	-0.0010	0.2463	0.3292	
65	23.56	-0.03	5.3718	1.7153	0.1273	0.0298	0.0	0.2379	0.3193	
66	23.88	-0.06	5.5209	1.7685	0.0643	0.0320	0.0030	0.2340	0.3203	
67	24.23	-0.07	5.6249	1.8549	0.0231	-0.0173	-0.0090	0.2271	0.3295	
68	24.54	-0.06	5.6498	1.9021	0.0570	0.0602	-0.0090	0.2292	0.3367	
69	24.91	-0.05	5.8731	1.9973	0.0574	0.0806	-0.0090	0.2117	0.3401	
70	25.22	-0.05	5.8840	1.9480	0.1205	0.0483	-0.0100	0.1999	0.3311	
71	25.56	-0.07	5.9974	2.0812	0.0638	-0.0583	-0.0060	0.2000	0.3470	
72	25.87	-0.05	6.0474	2.1582	0.1950	-0.0650	-0.0140	0.1837	0.3569	
73	26.21	-0.07	6.2348	2.2009	-0.0373	0.1422	-0.0150	0.1971	0.3530	
74	26.50	-0.06	6.3158	2.3285	0.0261	0.1124	-0.0260	0.1837	0.3687	
75	26.85	-0.06	6.5236	2.4444	-0.0351	0.2721	-0.0340	0.1741	0.3747	

PAGE 1 of 1
SHEET 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION
6	31	0.85	1.7	0.0	82W1F0	15.400	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	LN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.83	0.03	-0.5811	-0.2753	0.0890	0.0054	0.0040	0.1581	0.4737	
2	-2.65	0.03	-0.5364	-0.2889	0.1111	0.0045	0.0040	0.1576	0.5385	
3	-2.04	0.03	-0.4346	-0.2024	0.1337	0.0778	0.0010	0.1611	0.4657	
4	-1.41	0.02	-0.3025	-0.1125	0.1105	0.0263	0.0050	0.1619	0.3719	
5	-0.85	0.03	-0.1454	-0.0704	0.0873	0.0268	0.0010	0.1634	0.4845	
6	-0.30	0.04	-0.0621	-0.0041	0.1538	0.0237	-0.0020	0.1676	0.0654	
7	0.23	0.03	0.0436	0.0400	0.1037	-0.0152	-0.0030	0.1671	0.4165	
8	0.79	0.02	0.1585	0.1061	0.0711	0.0205	0.0060	0.1705	0.6694	
9	1.30	0.02	0.2974	0.1856	0.0781	-0.0423	-0.0010	0.1689	0.6242	
10	1.84	0.04	0.4069	0.2182	0.1596	0.0216	-0.0030	0.1672	0.5361	
11	2.33	0.04	0.5044	0.2787	0.1688	0.0257	0.0020	0.1687	0.5524	
12	2.85	0.02	0.6406	0.3210	0.0724	-0.0294	0.0010	0.1636	0.5010	
13	3.33	0.03	0.7493	0.3918	0.1144	-0.0122	0.0	0.1631	0.5229	
14	3.79	0.02	0.8779	0.4317	0.0663	0.0062	0.0040	0.1606	0.4918	
15	4.28	0.03	1.0021	0.4659	0.1258	0.0829	0.0080	0.1611	0.4649	
16	4.73	0.03	1.0800	0.5048	0.1304	0.0604	0.0060	0.1662	0.4674	
17	5.22	0.04	1.2339	0.5662	0.2237	0.0268	0.0040	0.1656	0.4588	
18	5.67	0.02	1.3368	0.5941	0.0804	-0.0236	0.0240	0.1602	0.4444	
19	6.17	0.02	1.4914	0.6317	0.2066	0.0658	0.0070	0.1592	0.4235	
20	6.63	0.01	1.5734	0.6569	0.1472	0.0189	0.0130	0.1581	0.4175	
21	7.10	0.01	1.7032	0.7071	0.1122	0.0625	0.0120	0.1586	0.4152	
22	7.55	0.01	1.8189	0.7302	0.0727	0.0462	0.0150	0.1605	0.4014	
23	7.96	0.01	1.9823	0.7533	0.1353	0.0586	0.0150	0.1592	0.3800	
24	8.42	0.0	2.0858	0.8144	0.0758	-0.0221	0.0100	0.1568	0.3904	
25	8.87	0.0	2.2062	0.8158	0.0582	0.0205	0.0150	0.1527	0.3698	
26	9.33	0.0	2.2775	0.8810	0.0625	0.0739	0.0120	0.1538	0.3868	
27	9.74	0.01	2.4285	0.9066	0.1232	0.0105	0.0220	0.1468	0.3733	
28	10.17	0.01	2.5706	0.9376	0.1436	0.0710	0.0140	0.1410	0.3648	
29	10.59	0.0	2.6662	0.9398	0.0860	-0.0024	0.0190	0.1376	0.3525	
30	10.98	0.0	2.7608	0.9692	0.0796	0.0506	0.0180	0.1380	0.3511	
31	11.39	0.0	2.9011	0.9558	0.1643	-0.0030	0.0190	0.1304	0.3432	
32	11.76	0.01	3.0017	1.0049	0.1267	0.0446	0.0240	0.1247	0.3348	
33	12.14	0.01	3.1026	1.0417	0.1465	0.0593	0.0230	0.1246	0.3357	
34	12.53	0.0	3.2395	1.0470	0.0737	0.0738	0.0270	0.1198	0.3232	
35	12.92	0.0	3.3485	1.0734	0.0695	0.0477	0.0260	0.1167	0.3206	
36	13.30	0.01	3.4310	1.1059	0.1280	0.0488	0.0280	0.1079	0.3223	
37	13.65	0.0	3.5479	1.1201	0.0725	0.0515	0.0250	0.1065	0.3157	
38	14.04	0.01	3.6628	1.1202	0.1578	0.0711	0.0260	0.0996	0.3058	
39	14.38	0.0	3.7867	1.1188	0.0305	0.0653	0.0290	0.0963	0.2954	
40	14.76	0.0	3.8859	1.1059	0.0957	0.0660	0.0180	0.0932	0.2846	
41	15.09	0.01	3.8831	1.1288	0.0943	0.1480	-0.0380	0.0915	0.2907	
42	15.49	0.0	4.0454	1.1026	0.0656	0.1111	-0.0420	0.0854	0.2726	
43	15.83	-0.01	4.1298	1.1034	-0.0570	0.0938	-0.0410	0.0827	0.2672	
44	16.19	0.0	4.1896	1.1457	0.0473	0.0908	0.0110	0.0839	0.2735	
45	16.52	0.0	4.3252	1.1347	0.0141	0.1312	0.0050	0.0776	0.2624	
46	16.82	0.0	4.4562	1.1003	0.0367	0.0906	0.0110	0.0763	0.2469	

PAGE 1 of 1
SHEET 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6 31 0.85 1.7			0.0	B2W1F0	15.400	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	17.20	0.0	4.5769	1.1274	0.0950	0.0310	0.0110	0.0700	0.2463	
48	17.55	0.0	4.7205	1.1183	0.1045	0.0497	0.0030	0.0640	0.2369	
49	17.89	0.01	4.8248	1.1253	0.1135	0.0341	0.0070	0.0628	0.2332	
50	18.21	-0.01	4.9520	1.1712	0.0220	0.0072	0.0090	0.0539	0.2365	
51	18.54	0.0	5.0407	1.1509	0.0377	0.0902	0.0110	0.0525	0.2281	
52	18.88	0.01	5.1208	1.1538	0.1092	0.1361	0.0190	0.0457	0.2253	
53	19.25	-0.01	5.2138	1.1666	-0.0110	0.0774	0.0120	0.0427	0.2237	
54	19.58	-0.02	5.3239	1.1844	-0.0285	0.0549	0.0100	0.0369	0.2225	
55	19.90	-0.01	5.4330	1.2117	0.0029	0.0919	0.0030	0.0338	0.2230	
56	20.22	-0.01	5.5179	1.2118	0.0209	0.1357	0.0060	0.0287	0.2196	
57	20.54	-0.01	5.5987	1.1887	0.0034	0.1142	-0.0060	0.0244	0.2123	
58	20.92	0.0	5.6909	1.2006	0.0171	0.1820	-0.0140	0.0189	0.2110	
59	21.26	0.0	5.7243	1.1788	0.0600	0.1120	-0.0450	0.0132	0.2059	
60	21.58	-0.01	5.7441	1.1650	-0.0238	0.1443	-0.1090	0.0164	0.2035	
61	21.88	-0.02	5.7955	1.1710	-0.0370	0.0918	-0.1100	0.0178	0.2021	
62	22.21	-0.02	5.8749	1.2029	0.0437	0.1648	-0.1300	0.0133	0.2047	
63	22.52	-0.01	5.9771	1.2218	0.1043	0.1510	-0.1270	0.0110	0.2044	
64	22.82	-0.01	5.9799	1.2469	0.0861	0.1124	-0.1200	0.0103	0.2085	
65	23.15	-0.03	6.1129	1.2337	0.0374	-0.0004	-0.1280	0.0024	0.2018	
66	23.45	-0.02	6.1931	1.2634	0.0662	0.0893	-0.1020	-0.0009	0.2040	
67	23.79	-0.02	6.3126	1.3261	0.1093	0.0340	-0.1040	-0.0019	0.2101	
68	24.11	-0.02	6.3859	1.3094	0.1047	0.0794	-0.0890	-0.0101	0.2051	
69	24.43	-0.03	6.4960	1.3383	0.0107	0.0520	-0.0760	-0.0156	0.2060	
70	24.76	-0.04	6.4966	1.3275	-0.0233	0.0376	-0.0500	-0.0176	0.2043	
71	25.07	-0.03	6.5834	1.3918	0.0512	0.0493	-0.0660	-0.0224	0.2114	
72	25.41	-0.03	6.7416	1.4273	0.0221	0.0471	-0.0580	-0.0341	0.2117	
73	25.68	-0.04	6.7983	1.4459	0.0268	-0.0385	-0.0600	-0.0304	0.2127	
74	26.00	-0.04	6.8819	1.5809	0.0721	-0.0249	-0.0690	-0.0381	0.2297	
75	26.28	-0.04	7.0194	1.6164	0.0745	-0.0643	-0.0670	-0.0410	0.2303	
76	26.57	-0.04	7.0544	1.7194	0.0950	-0.1190	-0.0700	-0.0488	0.2437	
77	26.87	-0.04	7.1309	1.7362	0.0954	-0.1195	-0.0840	-0.0534	0.2435	
78	27.18	-0.05	7.2221	1.7636	0.0750	-0.1420	-0.0590	-0.0592	0.2442	
79	27.48	-0.04	7.3172	1.9253	0.0982	-0.0815	-0.0870	-0.0635	0.2631	
80	27.81	-0.05	7.4343	1.9413	0.0622	-0.1571	-0.0880	-0.0687	0.2679	
81	28.13	-0.04	7.5337	2.0702	0.1414	-0.2159	-0.0830	-0.0769	0.2748	
82	28.43	-0.05	7.6415	2.1002	0.0920	-0.1488	-0.0820	-0.0878	0.2748	
83	28.75	-0.05	7.6916	2.1141	0.0946	-0.2454	-0.0870	-0.0892	0.2749	
84	29.04	-0.05	7.8186	2.2163	0.0836	-0.1500	-0.0750	-0.0963	0.2835	
85	29.34	-0.04	7.9211	2.3048	0.1338	-0.2263	-0.0840	-0.1074	0.2910	
86	29.64	-0.05	8.0564	2.3292	0.1001	-0.2021	-0.0900	-0.1120	0.2891	
87	29.99	-0.05	8.1328	2.4812	0.1160	-0.2544	-0.0820	-0.1144	0.3051	
88	30.31	-0.05	8.2544	2.6060	0.1005	-0.3317	-0.0900	-0.1268	0.3159	
89	30.41	-0.06	8.3970	2.6803	0.0325	-0.2515	-0.0910	-0.1297	0.3192	
90	30.12	-0.05	8.3106	2.6073	-0.0039	-0.0555	-0.0890	-0.1178	0.3137	
91	29.82	-0.03	8.2248	2.4734	0.2184	-0.1587	-0.0830	-0.1040	0.3007	
92	29.54	-0.05	8.1257	2.4492	0.1314	-0.1309	-0.0700	-0.0967	0.3014	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	31	0.85	1.7	0.0	82WFO	15.400	OFF	OFF	OFF	OFF	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
93	29.24	-0.04	8.0134	2.3145	0.1283	-0.2016	-0.0840	-0.0920	0.2888

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CNCF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	32	0.92	1.7	0.0	B2W1FO	15.400	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.85	0.02	-0.6385	-0.2599	0.0566	-0.0452	-0.0030	0.1700	0.4071		
2	-2.85	0.03	-0.6298	-0.2721	0.1183	0.0444	0.0020	0.1673	0.4320		
3	-2.45	0.03	-0.5203	-0.2144	0.1248	-0.0287	-0.0010	0.1701	0.4121		
4	-1.81	0.04	-0.3865	-0.1497	0.1682	0.0645	-0.0010	0.1705	0.3874		
5	-1.22	0.03	-0.2590	-0.1184	0.1496	0.0456	0.0	0.1732	0.4571		
6	-0.63	0.0	-0.1106	-0.0362	0.1024	-0.0014	-0.0070	0.1775	0.3269		
7	-0.07	0.03	0.0072	0.0259	0.1397	0.0324	-0.0060	0.1814	3.6000		
8	0.49	0.03	0.1104	0.0604	0.1593	0.0120	-0.0030	0.1799	0.5475		
9	1.01	0.03	0.2372	0.1349	0.1478	0.0011	-0.0060	0.1808	0.5688		
10	1.55	0.03	0.3633	0.1934	0.1421	-0.0149	0.0020	0.1825	0.5323		
11	2.05	0.02	0.4908	0.2297	0.1193	-0.0400	0.0	0.1832	0.4680		
12	2.55	0.03	0.5983	0.2972	0.1407	-0.0100	0.0020	0.1820	0.4907		
13	3.06	0.03	0.7507	0.3378	0.1102	0.0057	-0.0020	0.1807	0.4500		
14	3.53	0.02	0.8413	0.3660	0.1567	0.0426	0.0	0.1798	0.4350		
15	4.04	0.01	0.9430	0.4206	0.1086	-0.0240	0.0070	0.1778	0.4460		
16	4.51	0.01	1.0560	0.4444	0.0974	0.0366	0.0010	0.1762	0.4209		
17	4.98	0.01	1.1626	0.4870	0.1187	0.0438	0.0070	0.1790	0.4189		
18	5.44	0.0	1.3360	0.5213	0.0671	-0.0069	0.0040	0.1766	0.3902		
19	5.94	0.0	1.4841	0.5689	0.0616	0.0957	0.0020	0.1783	0.3833		
20	6.40	0.01	1.5811	0.5991	0.1890	-0.0286	0.0030	0.1793	0.3789		
21	6.89	0.0	1.7863	0.6148	0.0603	0.0070	0.0030	0.1798	0.3442		
22	7.33	0.01	1.8656	0.6238	0.1525	0.0689	0.0150	0.1781	0.3344		
23	7.82	-0.01	1.9967	0.6791	0.0451	-0.0051	0.0130	0.1764	0.3401		
24	8.27	0.0	2.1129	0.6904	0.0743	0.0300	0.0090	0.1736	0.3268		
25	8.70	0.01	2.2076	0.7298	0.1458	0.0269	0.0100	0.1738	0.3306		
26	9.14	0.01	2.3664	0.7625	0.1442	0.0731	0.0170	0.1695	0.3222		
27	9.55	-0.02	2.4731	0.7961	0.0654	0.0304	0.0160	0.1716	0.3219		
28	9.99	-0.01	2.5937	0.8033	0.0849	0.0821	0.0200	0.1691	0.3097		
29	10.42	-0.02	2.7476	0.8417	0.0620	0.0082	0.0240	0.1625	0.3063		
30	10.86	0.0	2.8462	0.8646	0.0444	0.0121	0.0180	0.1645	0.3038		
31	11.28	0.0	2.9586	0.8963	0.0374	0.0886	0.0190	0.1603	0.3029		
32	11.70	0.0	3.0823	0.9031	0.0316	0.0555	0.0170	0.1583	0.2930		
33	12.08	0.0	3.1816	0.9521	0.0300	0.0290	0.0210	0.1543	0.2992		
34	12.45	0.01	3.3003	0.9689	0.1149	0.0621	0.0170	0.1505	0.2936		
35	12.78	-0.01	3.4039	1.0005	0.0191	0.0333	0.0110	0.1457	0.2940		
36	13.17	0.0	3.5074	0.9998	0.0535	0.0265	0.0080	0.1426	0.2851		
37	13.54	-0.01	3.6035	0.9923	0.0004	0.0344	0.0040	0.1412	0.2754		
38	13.95	0.0	3.7187	1.0050	0.0313	0.1122	0.0090	0.1335	0.2703		
39	14.29	0.0	3.8517	1.0058	0.0104	0.0964	0.0080	0.1297	0.2611		
40	14.64	0.0	3.9880	0.9880	0.0473	0.0978	0.0	0.1275	0.2477		
41	15.03	0.01	4.1132	0.9897	0.0660	0.1386	0.0050	0.1168	0.2406		
42	15.41	0.0	4.2022	0.9741	-0.0005	0.1297	0.0090	0.1103	0.2318		
43	15.78	0.01	4.2894	1.0299	0.0652	0.1857	0.0040	0.1034	0.2401		
44	16.10	0.0	4.2945	1.0487	0.0806	-0.0198	0.0100	0.1003	0.2462		
45	16.45	0.01	4.4303	1.0566	0.1156	0.0901	0.0140	0.1044	0.2385		
46	16.81	0.01	4.5606	1.0702	0.0658	0.1429	0.0060	0.1010	0.2347		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
0		32	0.92	1.7	0.0	0.2W1F0	15.400	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.17	0.0	4.6489	1.0486	0.0679	0.0429	0.0070	0.1005	0.2256		
48	17.52	0.0	4.7899	1.0622	0.0450	0.1560	0.0070	0.1015	0.2218		
49	17.86	0.01	4.9020	1.0792	0.1261	0.0924	-0.0040	0.1002	0.2202		
50	18.19	0.01	5.0294	1.0857	0.0607	0.1280	0.0040	0.0976	0.2159		
51	18.51	0.0	5.1424	1.1175	0.0515	0.0929	-0.0080	0.0969	0.2173		
52	18.84	-0.01	5.2167	1.1115	-0.0230	0.0992	-0.0120	0.0953	0.2131		
53	19.18	0.0	5.3524	1.1535	0.0462	0.1583	-0.0220	0.0886	0.2155		
54	19.56	0.01	5.4549	1.1830	0.0732	0.1725	-0.0250	0.0861	0.2169		
55	19.89	0.0	5.5361	1.1823	0.0237	0.1848	-0.0300	0.0826	0.2136		
56	20.26	0.0	5.6330	1.2127	0.0028	0.1881	-0.0240	0.0743	0.2153		
57	20.59	-0.01	5.7010	1.2065	0.0162	0.0763	-0.0160	0.0689	0.2116		
58	20.90	-0.01	5.7781	1.2244	-0.0141	0.2077	-0.0170	0.0643	0.2119		
59	21.24	0.0	5.8731	1.2444	0.0298	0.1203	-0.0130	0.0533	0.2119		
60	21.59	-0.01	5.9915	1.2486	0.0128	0.1151	-0.0390	0.0454	0.2084		
61	21.91	-0.02	6.0160	1.2453	-0.0002	0.1713	-0.0260	0.0451	0.2070		
62	22.24	-0.02	6.1205	1.3010	-0.0018	0.1285	-0.0330	0.0406	0.2126		
63	22.58	-0.03	6.2302	1.2654	-0.0065	0.1901	-0.0350	0.0378	0.2031		
64	22.90	-0.02	6.3678	1.3608	0.0695	0.1017	-0.0420	0.0300	0.2137		
65	23.22	-0.03	6.4350	1.3791	0.0240	0.0554	-0.0590	0.0266	0.2142		
66	23.51	-0.05	6.4744	1.3975	-0.0737	0.0092	-0.0420	0.0276	0.2159		
67	23.85	-0.02	6.5751	1.4824	0.1142	0.0701	-0.0560	0.0199	0.2255		
68	24.19	-0.04	6.6356	1.5237	-0.0331	0.0203	-0.0560	0.0162	0.2296		
69	24.54	-0.03	6.7318	1.6530	-0.0058	0.0721	-0.0790	0.0057	0.2436		
70	24.83	-0.04	6.7765	1.6814	-0.0001	-0.0209	-0.0690	0.0058	0.2481		
71	25.13	-0.03	6.8839	1.7840	0.0788	0.0237	-0.0700	-0.0004	0.2592		
72	25.45	-0.04	6.9445	1.7372	0.0560	0.0116	-0.0730	-0.0061	0.2502		
73	25.78	-0.03	7.0575	1.9130	0.1218	-0.0275	-0.0850	-0.0125	0.2711		
74	26.11	-0.05	7.1981	1.9561	0.0236	0.0020	-0.0850	-0.0177	0.2718		
75	26.45	-0.05	7.3013	2.0435	0.0451	-0.0591	-0.0710	-0.0209	0.2799		
76	26.73	-0.05	7.3591	2.1186	0.0222	0.0465	-0.0760	-0.0241	0.2879		
77	27.01	-0.04	7.4815	2.1072	0.0764	-0.0939	-0.0800	-0.0319	0.2817		
78	27.31	-0.06	7.5552	2.1900	-0.0101	-0.0579	-0.0780	-0.0331	0.2899		
79	27.62	-0.06	7.6918	2.2608	-0.0214	-0.1040	-0.0800	-0.0365	0.2939		
80	27.94	-0.05	7.7637	2.3831	0.0251	-0.0941	-0.0950	-0.0417	0.3070		
81	28.27	-0.07	7.9724	2.4679	-0.0362	-0.0923	-0.0920	-0.0499	0.3096		
82	28.57	-0.05	8.0361	2.5386	0.0121	-0.0589	-0.0970	-0.0551	0.3159		
83	28.87	-0.05	8.1589	2.5487	0.0026	-0.0626	-0.0890	-0.0602	0.3124		
84	29.17	-0.05	8.2345	2.6668	0.0337	-0.0912	-0.1020	-0.0666	0.3239		
85	29.52	-0.06	8.3477	2.7883	-0.0294	-0.0178	-0.1040	-0.0692	0.3340		

PAGE 1 OF 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 33 0.97 1.7			0.0	B2M1+0	15.400	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.87	0.06	-0.6515	-0.2927	0.1204	0.1564	-0.0050	0.2585	0.4493	
2	-2.52	0.06	-0.5883	-0.2162	0.2100	-0.0220	-0.0010	0.2591	0.3675	
3	-1.91	0.02	-0.4551	-0.2097	0.1212	0.0853	0.0010	0.2522	0.4607	
4	-1.29	0.04	-0.2315	-0.0999	0.2564	-0.0210	-0.0000	0.2604	0.4315	
5	-0.75	0.0	-0.1985	-0.0721	0.0116	0.1157	0.0020	0.2653	0.3632	
6	-0.16	-0.04	-0.0214	-0.0110	0.2661	-0.0485	0.0030	0.2704	0.5159	
7	0.38	-0.05	0.0664	0.0450	0.0816	0.0288	-0.0040	0.2713	0.6783	
8	0.94	0.04	0.1797	0.1164	0.0132	0.0495	0.0010	0.2794	0.6479	
9	1.44	0.04	0.2633	0.1444	0.2016	0.0118	0.0040	0.2809	0.5483	
10	2.01	0.01	0.4609	0.2176	0.1350	-0.0480	0.0	0.2751	0.4720	
11	2.50	0.02	0.5440	0.2812	0.0584	0.0592	-0.0010	0.2713	0.5169	
12	3.01	0.02	0.7458	0.3277	0.2108	0.0549	0.0050	0.2740	0.4394	
13	3.50	0.01	0.6139	0.3814	0.2294	0.0048	0.0030	0.2737	0.4686	
14	3.96	-0.02	0.9457	0.4198	0.0591	0.0812	0.0020	0.2699	0.4439	
15	4.45	0.02	1.0606	0.4280	0.1462	0.0713	0.0070	0.2728	0.4035	
16	4.91	0.01	1.1508	0.4985	0.2725	0.0365	0.0020	0.2677	0.4332	
17	5.40	0.03	1.2943	0.5226	0.2116	0.0408	-0.0080	0.2659	0.4038	
18	5.88	0.07	1.4116	0.5694	-0.1560	0.2324	0.0030	0.2730	0.4034	
19	6.34	0.02	1.5848	0.5979	0.1662	-0.0137	0.0130	0.2770	0.3773	
20	6.81	-0.03	1.6343	0.6056	0.1878	0.0411	0.0130	0.2805	0.3706	
21	7.28	0.0	1.7798	0.6659	0.0724	0.1286	0.0130	0.2827	0.3742	
22	7.76	-0.02	1.8461	0.6851	0.0777	0.1112	0.0110	0.2808	0.3613	
23	8.23	0.0	2.0312	0.7168	0.1595	0.0747	0.0150	0.2817	0.3529	
24	8.67	0.05	2.1406	0.7526	0.1001	0.0639	0.0170	0.2807	0.3516	
25	9.11	0.04	2.3019	0.7858	0.1310	0.0886	0.0130	0.2747	0.3414	
26	9.52	0.02	2.3875	0.8080	0.1616	0.0758	0.0190	0.2761	0.3384	
27	9.95	-0.03	2.5458	0.8484	0.1127	0.0462	0.0120	0.2657	0.3332	
28	10.41	-0.02	2.6740	0.8397	0.2078	0.0101	0.0190	0.2523	0.3140	
29	10.83	0.02	2.8532	0.8539	0.0285	0.1261	0.0120	0.2364	0.2993	
30	11.25	-0.04	2.9423	0.8911	0.0203	0.1386	0.0070	0.2302	0.3029	
31	11.69	0.0	3.1044	0.9152	0.0185	0.1245	0.0100	0.2294	0.2948	
32	12.07	0.02	3.1846	0.9289	0.0064	0.1453	0.0200	0.2255	0.2917	
33	12.46	0.02	3.2447	0.9207	-0.0133	0.0856	0.0140	0.2141	0.2838	
34	12.81	0.01	3.4100	0.9133	0.0882	0.1135	0.0050	0.2116	0.2678	
35	13.17	0.0	3.5584	0.9304	0.0524	0.0676	0.0110	0.2054	0.2615	
36	13.54	0.01	3.6540	0.9046	0.0817	0.0456	0.0150	0.2012	0.2476	
37	13.97	0.02	3.7236	0.9131	0.1266	0.1607	0.0080	0.1974	0.2452	
38	14.32	0.0	3.9293	0.9352	-0.0172	0.1151	0.0080	0.1954	0.2380	
39	14.69	0.02	4.0513	0.9524	0.0602	0.1347	0.0100	0.1952	0.2351	
40	15.03	-0.01	4.1764	0.9512	-0.0372	0.1101	0.0050	0.1891	0.2278	
41	15.46	0.0	4.2678	0.9721	0.0606	0.1431	0.0150	0.1952	0.2278	
42	15.84	0.02	4.4061	0.9585	-0.0145	0.2053	0.0060	0.1780	0.2175	
43	16.19	0.0	4.5123	0.9828	0.0199	0.2031	0.0120	0.1855	0.2178	
44	16.56	-0.01	4.6552	0.9898	0.1302	0.1097	0.0050	0.1773	0.2126	
45	16.89	0.03	4.7745	0.9547	0.0892	0.0351	0.0070	0.1675	0.2000	
46	17.24	0.0	4.9100	0.9800	0.0585	0.0781	0.0060	0.1631	0.1996	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	33	0.97	1.7	0.0	82W1FO	15.400	OFF	OFF	OFF	OFF
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	17.57	0.0	4.9197	0.9985	0.0225	0.1235	0.0070	0.1657	0.2030	
48	17.93	0.01	5.0624	1.0271	0.0760	0.1066	0.0140	0.1575	0.2027	
49	18.27	0.01	5.2339	1.0494	0.0455	0.1933	0.0040	0.1527	0.2005	
50	18.61	0.01	5.3168	1.0944	0.0749	0.2001	0.0080	0.1479	0.2058	
51	18.96	0.01	5.4916	1.1436	0.0856	0.1371	0.0040	0.1491	0.2083	
52	19.29	0.0	5.5792	1.1690	0.1221	0.0411	-0.0060	0.1433	0.2095	
53	19.63	-0.03	5.6298	1.1741	-0.1550	0.1510	0.0010	0.1353	0.2086	
54	19.95	0.01	5.6738	1.1845	0.0568	0.1995	0.0010	0.1334	0.2088	
55	20.31	-0.01	5.7878	1.3538	0.0331	0.2716	-0.0180	0.1229	0.2339	
56	20.64	-0.01	5.9139	1.2993	-0.0220	0.0848	-0.0010	0.1265	0.2197	
57	20.97	-0.02	5.9372	1.3996	0.0077	0.2312	-0.0280	0.1088	0.2357	
58	21.31	-0.03	6.0556	1.4279	-0.0609	0.1672	-0.0360	0.1033	0.2358	
59	21.68	-0.01	6.1439	1.4482	0.0877	0.1692	-0.0350	0.0955	0.2357	
60	22.02	-0.04	6.2639	1.5402	-0.1421	0.2279	-0.0120	0.0828	0.2459	
61	22.36	-0.01	6.3077	1.5789	-0.0213	0.1808	-0.0090	0.0811	0.2503	
62	22.70	-0.02	6.4714	1.6927	0.0689	0.1195	-0.0050	0.0704	0.2616	
63	23.01	-0.01	6.5722	1.7594	0.0882	0.1335	-0.0170	0.0691	0.2677	
64	23.34	-0.01	6.6522	1.8014	0.0755	0.1477	-0.0030	0.0632	0.2708	
65	23.69	0.0	6.8543	1.8995	0.1751	0.0529	-0.0020	0.0583	0.2771	
66	24.03	-0.01	6.8736	1.9164	0.1249	0.0341	-0.0020	0.0543	0.2788	
67	24.36	-0.04	6.9802	2.0022	-0.0443	0.0910	-0.0020	0.0528	0.2868	
68	24.68	-0.01	7.1424	2.1641	0.1237	0.0228	-0.0060	0.0416	0.3030	
69	24.98	0.0	7.1477	2.1827	0.1827	0.0672	-0.0080	0.0397	0.3054	
70	25.33	-0.06	7.2007	2.1995	-0.0527	0.0568	0.0010	0.0354	0.3055	
71	25.68	-0.06	7.4047	2.3577	-0.0383	-0.0014	-0.0140	0.0302	0.3184	
72	25.99	-0.01	7.4612	2.3846	0.1663	-0.0378	-0.0250	0.0179	0.3196	

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	34	1.01	1.7	0.0	B2WIFO	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.87	0.03	-0.6330	-0.2726	0.1946	0.0935	-0.0050	0.2840	0.4307		
2	-2.64	0.05	-0.6175	-0.2553	0.2326	0.1003	-0.0010	0.2864	0.4135		
3	-2.03	0.01	-0.4473	-0.1946	0.0738	0.0427	-0.0010	0.2888	0.4350		
4	-1.40	0.01	-0.3333	-0.1334	0.1289	0.0205	0.0010	0.2972	0.4002		
5	-0.84	0.03	-0.1854	-0.0674	0.1250	0.0400	-0.0040	0.3020	0.3638		
6	-0.28	0.03	-0.0728	-0.0141	0.0812	0.0923	0.0010	0.3132	0.1934		
7	0.26	0.04	0.0648	0.0443	0.1556	-0.0088	-0.0010	0.3205	0.6833		
8	0.84	0.04	0.1964	0.1150	0.1918	-0.0075	0.0010	0.3178	0.5857		
9	1.34	0.06	0.2928	0.1621	0.1328	0.1061	0.0060	0.3204	0.5536		
10	1.88	0.02	0.4409	0.2506	0.0396	0.0296	0.0020	0.3184	0.5683		
11	2.40	0.04	0.5393	0.2898	0.1577	0.0332	0.0090	0.3215	0.5373		
12	2.89	0.03	0.6990	0.3412	0.1385	-0.0129	0.0	0.3148	0.4881		
13	3.40	0.03	0.8090	0.3722	0.1386	-0.0430	0.0050	0.3069	0.4601		
14	3.89	0.04	0.9486	0.4348	0.0324	0.0326	0.0060	0.3092	0.4583		
15	4.38	0.02	1.0705	0.4561	0.1557	0.0160	0.0060	0.2938	0.4261		
16	4.84	0.01	1.1989	0.5012	0.0806	0.0742	0.0050	0.2938	0.4180		
17	5.34	0.08	1.3555	0.5579	0.2080	0.0128	-0.0010	0.2843	0.4116		
18	5.81	0.0	1.4742	0.5868	0.0501	-0.0221	0.0020	0.2864	0.3980		
19	6.29	0.02	1.5962	0.6260	0.1691	-0.0017	0.0020	0.2897	0.3922		
20	6.75	0.05	1.7073	0.6684	0.0737	0.0788	0.0070	0.2977	0.3915		
21	7.22	0.0	1.8188	0.6863	0.0823	-0.0492	0.0110	0.3080	0.3774		
22	7.70	0.06	1.9297	0.7489	0.2444	0.1218	0.0050	0.3155	0.3881		
23	8.13	0.03	2.0663	0.7657	0.1818	0.0715	0.0110	0.3228	0.3705		
24	8.62	-0.04	2.1959	0.8082	-0.0227	0.0468	0.0150	0.3199	0.3631		
25	9.07	0.02	2.2996	0.8590	0.1156	0.1051	0.0080	0.3177	0.3736		
26	9.51	-0.04	2.4321	0.9115	0.1252	0.0767	0.0220	0.3078	0.3748		
27	9.93	0.10	2.5468	0.9159	0.0026	0.1503	0.0120	0.3039	0.3596		
28	10.38	0.11	2.6249	0.9256	0.2027	0.1912	0.0130	0.2943	0.3526		
29	10.76	0.04	2.7065	0.9482	0.0406	-0.0058	0.0150	0.2910	0.3503		
30	11.21	0.04	2.8787	0.9941	0.1099	0.1901	0.0120	0.2711	0.3453		
31	11.61	-0.01	2.9843	0.9803	-0.0541	0.1087	0.0170	0.2468	0.3279		
32	12.01	0.04	3.1153	0.9969	0.0862	0.0633	0.0170	0.2280	0.3200		
33	12.42	0.0	3.3121	1.0264	0.0371	0.1370	0.0160	0.2218	0.3099		
34	12.78	0.0	3.3781	1.0260	0.0057	0.1600	0.0220	0.2365	0.3037		
35	13.14	0.01	3.5274	1.0358	0.0293	0.1200	0.0100	0.2422	0.2936		
36	13.53	0.0	3.6542	1.0843	0.0030	0.0808	0.0130	0.2458	0.2967		
37	13.93	0.03	3.7626	1.1345	0.1303	0.1566	0.0050	0.2614	0.3015		
38	14.31	0.03	3.8853	1.1567	0.0445	0.1587	0.0120	0.2574	0.2977		
39	14.72	-0.01	4.0469	1.1105	-0.0857	0.2529	0.0170	0.2641	0.2744		
40	15.01	-0.01	4.1279	1.1051	0.0187	0.0078	0.0110	0.2643	0.2677		
41	15.42	0.01	4.2609	1.1188	0.0223	0.2467	0.0060	0.2622	0.2626		
42	15.83	0.03	4.3914	1.1271	0.1863	0.1942	0.0130	0.2521	0.2566		
43	16.17	0.0	4.4747	1.1654	0.0308	0.0709	0.0030	0.2487	0.2604		
44	16.52	0.0	4.6223	1.1928	0.0195	0.0437	0.0140	0.2290	0.2581		
45	16.83	0.02	4.6466	1.1528	0.1203	0.0576	0.0130	0.2276	0.2481		
46	17.18	-0.01	4.7675	1.1395	-0.0597	0.0536	0.0150	0.2095	0.2390		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	34	1.01	1.7	0.0	B2W1FU	15.400	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.54	0.0	4.9308	1.1649	-0.0011	0.1555	0.0160	0.1867	0.2362		
48	17.89	0.02	5.0435	1.2100	0.0956	0.1601	0.0090	0.1675	0.2399		
49	18.23	0.01	5.1524	1.2445	0.1155	0.0413	0.0150	0.1649	0.2425		
50	18.58	-0.02	5.2416	1.2776	-0.0655	0.0103	0.0110	0.1705	0.2437		
51	18.95	0.0	5.4453	1.3534	0.0278	0.1341	0.0070	0.1799	0.2485		
52	19.30	0.03	5.5332	1.3294	0.1755	0.1663	0.0030	0.1863	0.2403		
53	19.65	0.03	5.6426	1.3832	0.1691	0.1542	0.0070	0.2062	0.2451		
54	20.01	0.0	5.7352	1.4564	0.1201	0.1438	0.0010	0.2156	0.2539		
55	20.34	-0.02	5.8543	1.5027	-0.0074	0.2273	0.0100	0.2213	0.2567		
56	20.66	-0.02	5.8713	1.4879	0.0073	0.2158	0.0100	0.1897	0.2534		
57	21.03	0.01	6.0117	1.4353	0.0525	0.1195	0.0010	0.1648	0.2388		
58	21.39	0.0	6.1527	1.5349	-0.0426	0.2556	0.0050	0.1537	0.2495		
59	21.73	-0.02	6.1676	1.5450	-0.0475	0.0965	0.0070	0.1308	0.2505		
60	22.07	-0.01	6.2903	1.6053	-0.0083	0.1316	0.0070	0.1146	0.2552		
61	22.42	-0.01	6.3768	1.7421	-0.0163	0.1428	0.0060	0.0874	0.2732		
62	22.78	-0.03	6.5812	1.8588	-0.0423	0.1702	0.0110	0.0901	0.2824		
63	23.11	0.0	6.6769	1.8478	0.1174	0.1356	-0.0020	0.0929	0.2767		
64	23.42	-0.01	6.7852	1.9002	0.0912	0.0933	-0.0010	0.1161	0.2801		
65	23.72	-0.02	6.9780	1.9763	0.0145	0.1457	-0.0080	0.1364	0.2832		
66	24.05	-0.04	7.0360	1.9321	-0.0542	0.0439	-0.0040	0.1446	0.2746		
67	24.43	-0.01	7.2205	1.9728	0.1394	0.0168	-0.0110	0.1493	0.2732		
68	24.74	-0.01	7.2858	1.9722	0.1228	0.0721	-0.0050	0.1709	0.2707		

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	35	1.05	1.7	0.0	82W1F0	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.79	0.04	-0.6089	-0.2674	0.2472	0.0409	-0.0010	0.3433	0.4391		
2	-2.49	0.01	-0.5926	-0.2812	0.2376	0.0024	0.0040	0.3444	0.4745		
3	-1.86	0.02	-0.4216	-0.2046	0.1394	0.0568	-0.0020	0.3385	0.4852		
4	-1.29	0.02	-0.2933	-0.1294	0.1515	0.0289	-0.0030	0.3588	0.4411		
5	-0.70	0.03	-0.1594	-0.0558	0.1332	0.0345	-0.0020	0.3633	0.3503		
6	-0.15	0.01	-0.0225	0.0025	0.0572	0.0249	-0.0020	0.3659	-0.1111		
7	0.39	0.03	0.0873	0.0698	0.1710	0.0276	0.0	0.3748	0.7993		
8	0.96	0.02	0.2263	0.1472	0.1724	-0.0094	-0.0040	0.3774	0.6504		
9	1.48	0.04	0.3274	0.1586	0.2203	0.0676	0.0020	0.3755	0.4845		
10	2.03	0.01	0.4882	0.1884	0.0657	-0.0140	0.0080	0.3596	0.3858		
11	2.54	0.02	0.6390	0.2782	0.1706	0.0022	0.0030	0.3503	0.4354		
12	3.04	0.03	0.7694	0.2837	0.1592	0.1301	0.0070	0.3547	0.3687		
13	3.51	0.01	0.8365	0.3437	0.0930	0.0118	0.0020	0.3604	0.4109		
14	4.01	0.03	0.9748	0.4071	0.1487	-0.0142	-0.0010	0.3557	0.4176		
15	4.50	0.01	1.1116	0.4456	0.1458	-0.0141	0.0040	0.3629	0.4008		
16	4.98	0.03	1.2053	0.4862	0.1909	0.0737	0.0020	0.3678	0.4034		
17	5.45	0.02	1.3456	0.5098	0.1166	0.0857	0.0140	0.3658	0.3789		
18	5.94	0.01	1.4513	0.5228	0.0486	0.0949	0.0110	0.3612	0.3602		
19	6.43	-0.01	1.6126	0.5740	0.1400	-0.0160	0.0090	0.3682	0.3560		
20	6.87	0.0	1.6944	0.5917	-0.0065	0.1121	0.0050	0.3672	0.3488		
21	7.35	0.0	1.8095	0.5793	0.1198	0.1363	0.0130	0.3538	0.3202		
22	7.83	0.03	1.9881	0.6362	0.2131	0.1216	0.0020	0.3489	0.3200		
23	8.28	0.0	2.1069	0.6578	0.1527	0.0972	0.0080	0.3512	0.3122		
24	8.71	0.0	2.2374	0.7051	0.0246	0.0051	0.0050	0.3473	0.3152		
25	9.15	0.07	2.3546	0.7210	0.1326	0.0903	0.0060	0.3555	0.3062		
26	9.57	-0.02	2.4651	0.7493	0.1872	-0.0031	0.0120	0.3513	0.3040		
27	9.98	0.06	2.5562	0.7898	0.0462	0.0423	0.0180	0.3510	0.3090		
28	10.42	0.06	2.6522	0.8124	0.1105	0.0093	0.0180	0.3499	0.3063		
29	10.83	0.06	2.7803	0.8539	-0.0605	0.1867	0.0180	0.3475	0.3071		
30	11.28	0.07	2.8974	0.8490	0.1614	0.0413	0.0210	0.3535	0.2930		
31	11.71	0.04	3.0763	0.9215	0.0519	0.1663	0.0140	0.3569	0.2995		
32	12.10	-0.02	3.1131	0.9180	0.0439	0.1525	0.0200	0.3536	0.2949		
33	12.52	0.0	3.2377	0.9315	0.0745	0.1117	0.0160	0.3478	0.2877		
34	12.92	0.0	3.3786	0.9453	0.0267	0.0426	0.0210	0.3368	0.2798		
35	13.24	-0.01	3.5075	0.9827	-0.0303	0.1054	0.0160	0.3272	0.2802		
36	13.59	0.02	3.6127	0.9444	0.0542	0.1621	0.0150	0.3238	0.2614		
37	14.04	0.02	3.7112	1.0425	-0.0234	0.1707	0.0090	0.3022	0.2809		
38	14.38	-0.01	3.7979	1.0591	0.0066	0.0143	0.0150	0.2872	0.2789		
39	14.75	0.03	3.9256	1.0803	0.1685	0.1431	0.0180	0.2743	0.2752		
40	15.09	0.01	4.0632	1.1047	0.0538	0.1517	0.0150	0.2645	0.2719		
41	15.50	0.01	4.1729	1.0851	0.0220	0.1942	0.0160	0.2562	0.2600		
42	15.89	0.0	4.2594	1.0979	0.0237	0.0958	0.0170	0.2463	0.2577		
43	16.25	0.0	4.4422	1.1359	-0.0224	0.0614	0.0150	0.2471	0.2557		
44	16.62	0.02	4.5881	1.1387	0.0839	0.2485	0.0150	0.2684	0.2442		
45	16.93	0.0	4.6325	1.1595	0.0052	0.1937	0.0170	0.2889	0.2503		
46	17.29	0.01	4.7957	1.1750	0.1162	0.1243	0.0100	0.2974	0.2450		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	35	1.05	1.7	0.0	B2W1FO	15.400	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	17.64	0.04	4.9424	1.1457	0.2251	0.0998	0.0090	0.3000	0.2318	
48	17.99	0.01	5.0243	1.1958	0.1260	0.0246	0.0010	0.2964	0.2380	
49	18.32	0.02	5.1565	1.2038	0.1212	0.1063	0.0060	0.2814	0.2334	
50	18.65	-0.01	5.2430	1.2667	0.0002	0.1117	0.0050	0.2693	0.2416	
51	19.01	0.01	5.3290	1.3352	0.0274	0.1186	0.0080	0.2614	0.2506	
52	19.34	-0.01	5.3628	1.3499	-0.0331	0.1563	0.0070	0.2470	0.2517	
53	19.69	0.01	5.5046	1.4114	0.0533	0.1354	0.0070	0.2312	0.2564	
54	20.07	0.0	5.6735	1.4579	0.0313	0.1632	0.0060	0.2290	0.2570	
55	20.40	0.0	5.7292	1.4490	0.0745	0.1037	0.0080	0.2224	0.2529	
56	20.74	0.01	5.8306	1.4649	0.0763	0.0482	0.0070	0.2172	0.2512	
57	21.11	-0.01	5.9338	1.5554	0.0175	0.1875	0.0	0.2198	0.2621	
58	21.46	-0.01	6.0466	1.5504	-0.0142	0.1799	-0.0010	0.2299	0.2564	
59	21.84	0.0	6.1872	1.5526	0.0098	0.1183	0.0080	0.2207	0.2509	
60	22.18	0.01	6.2911	1.6091	0.0707	0.1580	0.0100	0.2096	0.2558	
61	22.49	-0.01	6.3328	1.6277	-0.0281	0.1463	0.0060	0.2039	0.2570	
62	22.83	-0.03	6.4845	1.7154	-0.0391	0.1237	0.0060	0.1999	0.2645	
63	23.13	-0.02	6.6014	1.8165	0.0170	0.1862	0.0040	0.1767	0.2752	
64	23.47	0.01	6.7005	1.8298	0.0603	0.1916	0.0020	0.1587	0.2731	
65	23.83	-0.02	6.8416	1.8863	0.0015	0.1696	0.0020	0.1539	0.2757	
66	24.16	-0.01	6.9839	1.9330	0.1251	0.1048	-0.0010	0.1806	0.2768	
67	24.49	-0.01	7.1883	2.0139	0.0854	0.0254	0.0	0.1645	0.2802	
68	24.84	0.0	7.3332	1.9489	0.1031	-0.0393	-0.0090	0.2027	0.2658	

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	36	1.10	1.7	0.0	0.82WFO	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.87	-0.02	-0.6179	-0.2478	0.0602	0.0967	0.0040	0.3654	0.4010		
2	-2.68	0.0	-0.5982	-0.2234	0.0006	0.1701	0.0040	0.3640	0.3734		
3	-2.04	0.03	-0.4399	-0.1690	0.1671	0.1100	0.0	0.3642	0.3841		
4	-1.44	0.04	-0.3220	-0.1132	0.2550	0.0190	0.0020	0.3637	0.3516		
5	-0.83	0.02	-0.1790	-0.0634	0.0966	0.0547	0.0040	0.3636	0.3542		
6	-0.29	0.05	-0.0633	-0.0124	0.2015	0.0639	0.0110	0.3533	0.1956		
7	0.28	0.02	0.0581	0.0557	0.1439	0.0645	0.0030	0.3558	0.9580		
8	0.82	0.01	0.1881	0.0806	0.0904	0.0574	0.0060	0.3405	0.4208		
9	1.37	0.02	0.3053	0.1716	0.0985	0.0971	0.0030	0.3534	0.5620		
10	1.90	0.02	0.4428	0.2269	0.1509	0.0197	0.0080	0.3471	0.5124		
11	2.39	0.02	0.5793	0.2388	0.0990	0.1804	0.0110	0.3440	0.4122		
12	2.91	0.02	0.6757	0.3048	0.1976	-0.0176	0.0070	0.3463	0.4511		
13	3.40	0.03	0.8598	0.3341	0.3334	-0.0468	0.0060	0.3485	0.3886		
14	3.91	-0.01	0.9605	0.3791	0.0952	0.0677	0.0080	0.3529	0.3947		
15	4.38	0.01	1.0736	0.4288	0.0877	0.0862	0.0090	0.3512	0.3994		
16	4.87	0.03	1.1766	0.4704	0.3479	0.0819	0.0090	0.3605	0.3998		
17	5.34	0.02	1.3243	0.4836	0.1465	0.0579	0.0130	0.3606	0.3652		
18	5.84	0.03	1.4519	0.5550	0.1838	0.0727	0.0050	0.3770	0.3822		
19	6.28	0.05	1.5152	0.5514	0.0562	0.1563	0.0090	0.3839	0.3639		
20	6.78	0.04	1.7127	0.6269	0.1118	0.0545	0.0110	0.3944	0.3660		
21	7.26	-0.01	1.8278	0.6557	0.0814	0.1040	0.0060	0.3943	0.3588		
22	7.72	0.02	1.9453	0.6921	0.0923	0.0588	0.0090	0.3901	0.3558		
23	8.18	0.05	2.0488	0.7222	0.1262	0.1413	0.0130	0.3917	0.3525		
24	8.63	-0.04	2.2140	0.7489	0.0238	0.1357	0.0130	0.3911	0.3382		
25	9.11	0.06	2.2769	0.7558	0.3476	0.0674	0.0120	0.3954	0.3320		
26	9.52	-0.05	2.3940	0.7789	0.1024	0.1136	0.0100	0.3783	0.3253		
27	9.97	-0.02	2.5151	0.8003	0.2268	0.0375	0.0160	0.3629	0.3182		
28	10.40	0.03	2.6257	0.8495	0.0552	0.0647	0.0120	0.3801	0.3235		
29	10.82	-0.04	2.7369	0.8677	0.1705	0.1023	0.0200	0.3701	0.3170		
30	11.23	0.02	2.8504	0.9128	0.0342	0.2521	0.0170	0.3753	0.3202		
31	11.66	0.02	2.9876	0.9167	0.0864	0.1440	0.0190	0.3457	0.3068		
32	12.03	-0.01	2.9791	0.9346	-0.0555	0.1892	0.0180	0.3490	0.3137		
33	12.43	0.02	3.1898	0.9696	0.1299	0.1311	0.0180	0.3590	0.3040		
34	12.84	0.05	3.2873	0.9781	0.1393	0.2459	0.0160	0.3625	0.2975		
35	13.17	0.03	3.4353	0.9899	0.0337	0.2108	0.0210	0.3670	0.2882		
36	13.54	0.0	3.5257	1.0202	-0.0435	0.1504	0.0080	0.3541	0.2894		
37	13.97	0.02	3.7197	1.0206	0.1246	0.1375	0.0130	0.3623	0.2744		
38	14.36	0.0	3.7660	1.0318	0.0435	0.0521	0.0170	0.3665	0.2740		
39	14.70	0.01	3.8351	1.0770	0.0283	0.2194	0.0160	0.3641	0.2808		
40	15.04	0.01	3.9639	1.0377	0.0331	0.1486	0.0180	0.3506	0.2618		
41	15.45	0.02	4.1052	1.0909	0.0698	0.2143	0.0180	0.3474	0.2657		
42	15.85	0.0	4.2246	1.0576	0.0213	0.1592	0.0190	0.3430	0.2503		
43	16.21	0.01	4.2625	1.0695	0.1142	0.0241	0.0220	0.3388	0.2509		
44	16.56	0.02	4.4232	1.0385	0.1160	0.1596	0.0200	0.3275	0.2348		
45	16.90	0.02	4.4853	1.0686	0.0051	0.1488	0.0190	0.3228	0.2382		
46	17.28	0.0	4.6707	1.1410	0.1363	0.1372	0.0170	0.3186	0.2443		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			36	1.10	1.7	0.0	82WFO	15.400	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	17.62	-0.01	4.7780	1.1478	0.1077	0.1672	0.0110	0.3091	0.2402				
48	17.97	0.01	4.8633	1.2094	0.2053	0.1326	0.0110	0.3185	0.2467				
49	18.31	-0.01	5.0170	1.1961	-0.0119	0.0387	0.0080	0.3038	0.2384				
50	18.62	0.03	5.0495	1.1376	0.1719	0.1393	0.0100	0.2869	0.2253				
51	19.01	0.0	5.2193	1.2168	0.0507	-0.0270	0.0100	0.2893	0.2331				
52	19.33	0.0	5.3027	1.2461	0.0058	0.2648	0.0110	0.2813	0.2350				
53	19.71	0.0	5.4554	1.2413	0.0177	0.2292	0.0070	0.2685	0.2275				
54	20.03	0.0	5.4811	1.2993	-0.0399	0.1208	0.0090	0.2788	0.2371				
55	20.37	0.0	5.5643	1.2988	0.0452	0.0907	0.0100	0.2852	0.2334				
56	20.70	0.04	5.6961	1.3993	0.1391	0.2302	0.0120	0.2832	0.2457				
57	21.08	0.0	5.7937	1.5035	0.0697	0.3174	0.0040	0.2937	0.2595				
58	21.40	0.0	5.8376	1.5210	-0.0148	0.2047	0.0080	0.2806	0.2606				
59	21.78	-0.02	6.0053	1.6342	-0.0236	0.1780	0.0100	0.2570	0.2721				
60	22.10	-0.02	6.0603	1.6482	0.0626	0.1453	0.0010	0.2643	0.2720				
61	22.44	-0.03	6.1191	1.6779	0.0175	0.0725	-0.0040	0.2474	0.2742				
62	22.82	-0.03	6.3489	1.8302	0.0616	0.1297	0.0010	0.2333	0.2883				
63	23.16	-0.02	6.4202	1.8584	0.0825	0.0819	-0.0060	0.2390	0.2895				
64	23.50	-0.03	6.5186	1.8844	0.0680	0.0568	-0.0040	0.2250	0.2891				
65	23.79	-0.02	6.5956	1.8970	0.0938	0.0367	-0.0030	0.2213	0.2874				
66	24.12	-0.03	6.7109	1.9182	0.0685	0.0811	-0.0090	0.2068	0.2858				

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	37	0.85	1.7	0.0	82W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.79	0.02	-0.2518	-0.3224	-0.0213	0.0478	0.0010	0.1314	1.2807		
2	-2.80	0.03	-0.2688	-0.3456	0.0084	0.1042	0.0010	0.1299	1.2860		
3	-2.56	0.03	-0.2247	-0.2994	0.0841	0.0093	0.0010	0.1270	1.3325		
4	-1.96	0.01	-0.1701	-0.2304	0.1145	0.0077	0.0010	0.1256	1.3428		
5	-1.38	0.0	-0.1124	-0.1466	0.0186	0.0340	0.0	0.1291	1.3046		
6	-0.79	0.01	-0.0770	-0.0932	0.0470	0.0622	0.0	0.1309	1.2104		
7	-0.25	0.01	-0.0271	-0.0171	0.0454	0.0834	0.0	0.1334	0.6295		
8	0.30	0.01	0.0309	0.0397	0.0436	0.0839	0.0010	0.1337	1.2861		
9	0.82	0.01	0.0885	0.1341	0.0266	0.0628	0.0010	0.1361	1.5153		
10	1.34	0.02	0.1287	0.1918	0.0395	0.0337	0.0020	0.1404	1.4904		
11	1.85	0.03	0.2007	0.2700	0.1191	0.1362	0.0010	0.1389	1.3454		
12	2.33	0.01	0.2341	0.3262	0.0783	0.0614	0.0030	0.1392	1.3937		
13	2.83	0.01	0.2982	0.3995	0.0696	0.0811	0.0020	0.1383	1.3398		
14	3.31	0.01	0.3412	0.4653	0.0475	0.0289	0.0040	0.1357	1.3638		
15	3.80	0.02	0.3915	0.5137	0.1264	0.1160	0.0020	0.1338	1.3120		
16	4.23	0.01	0.4670	0.5830	0.0341	0.0613	0.0030	0.1357	1.2483		
17	4.70	0.01	0.4410	0.6194	0.0545	0.0587	0.0030	0.1373	1.2876		
18	5.16	-0.01	0.5536	0.6795	0.0408	0.0359	0.0040	0.1414	1.2319		
19	5.64	-0.01	0.6128	0.7058	0.0453	0.0876	0.0040	0.1413	1.1518		
20	6.10	-0.01	0.6841	0.7410	0.0694	0.0308	0.0040	0.1428	1.0832		
21	6.56	-0.01	0.7460	0.7934	0.0177	0.0262	0.0050	0.1467	1.0635		
22	7.02	-0.01	0.7977	0.8410	0.0394	-0.0342	0.0060	0.1462	1.0542		
23	7.49	0.01	0.8533	0.8621	0.1457	0.1350	0.0060	0.1533	1.0104		
24	7.92	-0.01	0.9177	0.9260	0.0483	0.0474	0.0070	0.1583	1.0090		
25	8.36	-0.02	1.0004	0.9552	-0.0141	-0.0203	0.0080	0.1553	0.9548		
26	8.82	-0.02	1.0452	0.9775	0.0011	0.0015	0.0090	0.1513	0.9352		
27	9.22	-0.03	1.1281	1.0094	-0.0376	-0.0883	0.0100	0.1478	0.8948		
28	9.65	-0.02	1.1938	1.0373	-0.0158	0.0651	0.0100	0.1505	0.8688		
29	10.06	-0.04	1.2323	1.0644	-0.0887	0.0022	0.0110	0.1515	0.8637		
30	10.48	-0.01	1.3222	1.1095	0.0769	0.1453	0.0070	0.1460	0.8391		
31	10.89	0.0	1.3847	1.1270	0.1215	0.1433	0.0090	0.1428	0.8139		
32	11.29	-0.01	1.4352	1.1263	0.0384	0.0512	0.0090	0.1386	0.7848		
33	11.67	0.0	1.5145	1.2043	0.0920	0.0822	0.0080	0.1365	0.7952		
34	12.02	-0.02	1.5785	1.2027	0.0280	0.0118	0.0080	0.1307	0.7619		
35	12.40	-0.02	1.6102	1.2053	0.0088	0.0607	0.0050	0.1266	0.7485		
36	12.76	-0.01	1.6821	1.2536	0.0476	0.0524	-0.0100	0.1265	0.7453		
37	13.10	-0.01	1.7256	1.2497	0.0135	0.0501	-0.0090	0.1189	0.7242		
38	13.45	-0.02	1.7436	1.2745	-0.0251	0.0181	0.0090	0.1180	0.7310		
39	13.85	-0.01	1.8259	1.2893	0.0843	0.0690	0.0090	0.1095	0.7061		
40	14.20	0.0	1.8666	1.2883	0.0889	0.1045	0.0080	0.1008	0.6902		
41	14.51	-0.01	1.9512	1.3197	0.0268	0.0675	0.0100	0.0923	0.6764		
42	14.90	-0.01	2.0166	1.3392	0.0313	0.0492	0.0110	0.0865	0.6641		
43	15.27	-0.02	2.0714	1.3454	-0.0205	0.1147	0.0090	0.0792	0.6495		
44	15.66	-0.01	2.1315	1.3813	0.0492	0.1041	0.0100	0.0773	0.6480		
45	15.99	-0.01	2.2163	1.3976	0.0212	0.1653	0.0060	0.0763	0.6306		
46	16.33	-0.03	2.2868	1.4269	-0.0790	0.0956	0.0100	0.0718	0.6240		

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			37	0.85	1.7	0.0	B2W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	16.65	0.0	2.3377	1.4386	0.0497	0.2014	0.0120	0.0741	0.6154				
48	17.00	-0.02	2.4170	1.4796	0.0085	0.0651	0.0090	0.0754	0.6122				
49	17.32	-0.02	2.4457	1.4844	-0.0545	0.1613	0.0090	0.0813	0.6070				
50	17.65	-0.02	2.4920	1.5506	-0.1191	0.2247	-0.0200	0.0815	0.6222				
51	17.97	-0.03	2.5145	1.5501	-0.1423	0.2092	-0.0230	0.0811	0.6165				
52	18.32	-0.02	2.5696	1.5969	-0.1118	0.2305	-0.0260	0.0802	0.6215				
53	18.66	-0.02	2.6091	1.6136	-0.0987	0.1922	-0.0100	0.0737	0.6185				
54	18.99	-0.03	2.6453	1.6240	-0.0987	0.1322	0.0	0.0704	0.6139				
55	19.33	-0.02	2.7026	1.6386	-0.0123	0.0882	0.0020	0.0583	0.6063				
56	19.63	-0.03	2.7230	1.6470	-0.0898	0.1167	0.0040	0.0528	0.6048				
57	19.96	-0.02	2.7832	1.6617	-0.0338	0.1263	0.0020	0.0420	0.5971				
58	20.28	-0.03	2.8299	1.7104	-0.0597	0.0686	-0.0050	0.0305	0.6044				
59	20.63	-0.02	2.8913	1.6964	-0.0120	0.1518	-0.0050	0.0242	0.5867				
60	20.94	-0.02	2.9531	1.7649	0.0537	0.0638	-0.0090	0.0161	0.5976				
61	21.25	-0.03	2.9878	1.8043	-0.0621	0.0949	-0.0130	0.0097	0.6039				
62	21.60	-0.03	3.0717	1.7918	0.0080	-0.0162	-0.0100	0.0090	0.5833				
63	21.92	-0.03	3.1181	1.8409	-0.0424	0.1063	-0.0130	0.0039	0.5904				
64	22.25	-0.03	3.2260	1.8928	0.0680	0.0258	-0.0150	0.0031	0.5867				
65	22.59	-0.04	3.2842	1.8823	-0.0245	0.0413	-0.0100	0.0130	0.5731				
66	22.90	-0.04	3.3480	1.9580	-0.0066	-0.0008	-0.0230	0.0136	0.5848				
67	23.20	-0.04	3.4687	2.0039	0.0024	0.0666	-0.0170	0.0124	0.5777				
68	23.51	-0.04	3.5185	2.0261	0.0221	0.0171	-0.0210	0.0154	0.5758				
69	23.87	-0.03	3.5734	2.0223	0.1087	0.0128	-0.0270	0.0156	0.5659				
70	24.15	-0.04	3.6164	2.0811	-0.0123	0.1652	-0.0180	0.0108	0.5754				
71	24.49	-0.04	3.6958	2.1059	0.1038	-0.1123	-0.0230	0.0043	0.5698				
72	24.81	-0.03	3.7328	2.1231	0.0610	-0.1246	-0.0260	-0.0061	0.5688				
73	25.13	-0.04	3.8351	2.1699	0.0183	0.0904	-0.0250	-0.0176	0.5658				
74	25.39	-0.05	3.8649	2.1692	-0.1185	0.2639	-0.0250	-0.0283	0.5612				
75	25.70	-0.06	3.9277	2.2432	-0.0694	-0.0568	-0.0270	-0.0417	0.5711				
76	26.03	-0.04	3.9883	2.2794	-0.0330	0.1292	-0.0230	-0.0576	0.5715				
77	26.31	-0.05	4.0188	2.3167	-0.0376	0.0306	-0.0220	-0.0728	0.5765				
78	26.57	-0.04	4.1115	2.3409	-0.0727	0.2228	-0.0210	-0.0796	0.5694				
79	26.87	-0.05	4.1561	2.3645	-0.0732	0.1295	-0.0180	-0.0872	0.5689				
80	27.21	-0.05	4.2531	2.4745	-0.0093	-0.0770	-0.0210	-0.0948	0.5818				
81	27.50	-0.04	4.3592	2.5779	0.0684	-0.1557	-0.0240	-0.0964	0.5914				
82	27.81	-0.05	4.4530	2.6066	-0.0841	0.2067	-0.0250	-0.0963	0.5854				
83	28.10	-0.03	4.5377	2.7470	0.0200	0.2060	-0.0270	-0.0942	0.6054				
84	28.39	-0.05	4.6679	2.8637	-0.0637	0.0162	-0.0250	-0.0985	0.6135				
85	28.72	-0.07	4.7766	2.9685	-0.2282	0.2005	-0.0270	-0.0920	0.6215				
86	29.04	-0.03	4.8862	3.1861	0.3268	-0.3115	-0.0300	-0.1017	0.6521				
87	29.38	-0.03	4.9825	3.2391	0.1060	-0.0224	-0.0270	-0.1078	0.6501				
88	29.67	-0.04	5.0107	3.2856	0.2126	-0.4416	-0.0220	-0.1158	0.6557				
89	29.98	-0.05	5.0717	3.3392	0.2453	-0.3424	-0.0250	-0.1244	0.6584				
90	30.28	-0.05	5.1545	3.4753	0.1495	-0.1373	-0.0170	-0.1350	0.6742				

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	38	0.92	1.7	0.0	82W3FO	16.750	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.81	0.03	-0.2961	-0.3554	0.0495	0.0587	0.0	0.1352	1.2005	
2	-2.50	0.04	-0.2559	-0.3137	0.1091	0.0693	-0.0010	0.1332	1.2260	
3	-1.89	0.01	-0.1767	-0.2236	0.0284	0.0722	-0.0010	0.1391	1.2655	
4	-1.32	0.01	-0.1309	-0.1567	0.0640	0.0354	0.0	0.1389	1.1974	
5	-0.76	0.03	-0.0641	-0.0683	0.0598	0.1003	0.0	0.1390	1.0649	
6	-0.20	0.02	-0.0052	-0.0147	0.0541	0.0763	0.0	0.1391	2.8308	
7	0.32	0.02	0.0158	0.0569	0.0804	-0.0136	0.0020	0.1440	3.6000	
8	0.88	0.01	0.0969	0.1443	0.0082	0.0195	0.0010	0.1433	1.4896	
9	1.38	0.02	0.1222	0.2079	0.0768	0.0795	0.0010	0.1459	1.7015	
10	1.91	0.0	0.1993	0.2569	0.0030	0.0618	0.0	0.1454	1.2894	
11	2.40	0.01	0.2673	0.3407	0.0845	0.0677	0.0030	0.1465	1.2749	
12	2.88	0.0	0.3185	0.3691	0.0032	0.0435	0.0030	0.1427	1.1589	
13	3.37	0.0	0.3808	0.4658	0.0015	0.0759	0.0040	0.1421	1.2234	
14	3.82	0.01	0.4135	0.5029	0.0313	0.0502	0.0030	0.1450	1.2161	
15	4.28	0.01	0.4717	0.5654	0.1445	0.1457	0.0020	0.1486	1.1986	
16	4.75	0.0	0.5453	0.6214	0.0872	0.0889	0.0040	0.1496	1.1394	
17	5.24	-0.01	0.5989	0.6593	0.0317	0.0416	0.0040	0.1529	1.1008	
18	5.70	-0.01	0.6639	0.7063	0.0226	0.1203	0.0030	0.1511	1.0639	
19	6.16	-0.01	0.7145	0.7405	0.0320	0.0282	0.0050	0.1577	1.0363	
20	6.61	-0.02	0.7729	0.7837	-0.0105	-0.0013	0.0050	0.1635	1.0140	
21	7.11	-0.01	0.8573	0.8175	0.0528	0.0561	0.0060	0.1644	0.9536	
22	7.54	-0.01	0.9158	0.8506	0.0622	0.0529	0.0060	0.1651	0.9289	
23	7.97	-0.01	0.9796	0.8873	0.0734	0.0612	0.0050	0.1631	0.9058	
24	8.43	-0.02	1.0230	0.9305	-0.0210	0.1424	0.0070	0.1624	0.9096	
25	8.86	-0.01	1.1079	0.9567	0.1110	0.0606	0.0040	0.1600	0.8635	
26	9.27	-0.01	1.1492	0.9857	0.0703	0.0556	0.0050	0.1533	0.8577	
27	9.68	0.04	1.2170	1.0128	0.0502	0.0767	0.0040	0.1512	0.8322	
28	10.11	0.0	1.2955	1.0569	0.1081	0.0866	0.0050	0.1479	0.8158	
29	10.52	-0.01	1.3684	1.0808	0.0393	0.0930	0.0090	0.1465	0.7898	
30	10.96	-0.01	1.4121	1.1136	0.0375	0.0565	0.0090	0.1416	0.7886	
31	11.37	-0.01	1.4911	1.1280	0.0303	0.0326	0.0060	0.1367	0.7565	
32	11.76	0.01	1.5679	1.1675	0.1617	0.1036	0.0050	0.1324	0.7446	
33	12.12	-0.01	1.6210	1.1752	0.0264	0.0593	0.0050	0.1308	0.7250	
34	12.48	0.0	1.6856	1.2027	0.0814	0.1270	0.0050	0.1275	0.7135	
35	12.81	-0.01	1.7273	1.2143	0.0028	0.0861	0.0020	0.1261	0.7030	
36	13.19	0.0	1.7891	1.2528	0.0687	0.0768	0.0	0.1205	0.7003	
37	13.60	-0.01	1.8462	1.2699	0.0351	0.0908	-0.0010	0.1189	0.6878	
38	13.92	0.0	1.8868	1.3070	0.0633	0.0644	0.0050	0.1216	0.6927	
39	14.28	0.0	1.9700	1.3154	0.0635	0.1571	0.0090	0.1183	0.6677	
40	14.62	0.01	2.0355	1.3277	0.0500	0.1560	0.0080	0.1147	0.6523	
41	15.02	0.0	2.0903	1.3480	0.0167	0.1566	0.0080	0.1133	0.6449	
42	15.37	-0.01	2.1648	1.3617	-0.0339	0.1654	0.0090	0.1126	0.6382	
43	15.73	-0.02	2.2186	1.4124	-0.1012	0.1327	0.0080	0.1121	0.6366	
44	16.07	-0.02	2.2966	1.4112	-0.1047	0.1166	0.0080	0.1093	0.6145	
45	16.42	-0.02	2.3700	1.4494	-0.1008	0.1931	0.0060	0.1051	0.6116	
46	16.78	-0.02	2.4385	1.4885	-0.0930	0.1932	0.0040	0.1042	0.6104	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PH1	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION	
6			38	0.92	1.7	0.0	82W3F0	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	17.11	-0.01	2.5034	1.5356	-0.0610	0.2104	0.0030	0.1031	0.6134				
48	17.43	-0.02	2.5636	1.5553	-0.1263	0.1688	0.0030	0.1019	0.6067				
49	17.74	-0.01	2.6133	1.5788	-0.0812	0.2916	0.0020	0.1008	0.6041				
50	18.11	-0.01	2.7013	1.6344	-0.0082	0.1575	0.0010	0.0935	0.6050				
51	18.44	-0.02	2.7209	1.6640	-0.1297	0.2266	-0.0030	0.0920	0.6115				
52	18.78	-0.02	2.7448	1.6985	-0.1108	0.2551	-0.0150	0.0854	0.6188				
53	19.09	-0.02	2.8068	1.7067	-0.0789	0.1674	-0.0170	0.0789	0.6081				
54	19.42	-0.02	2.8499	1.7484	-0.0975	0.2645	-0.0230	0.0696	0.6135				
55	19.76	-0.03	2.9085	1.7883	-0.1204	0.2145	-0.0170	0.0606	0.6149				
56	20.08	-0.04	2.9367	1.7948	-0.1412	0.1187	-0.0140	0.0538	0.6112				
57	20.45	-0.03	3.0313	1.8434	-0.0997	0.1466	-0.0080	0.0467	0.6081				
58	20.76	-0.03	3.0586	1.8812	-0.0905	0.1917	-0.0090	0.0421	0.6150				
59	21.11	-0.02	3.0975	1.8707	-0.0339	0.2314	-0.0070	0.0356	0.6039				
60	21.45	-0.03	3.1741	1.9464	-0.0488	0.1283	-0.0110	0.0302	0.6132				
61	21.80	-0.02	3.2375	1.9797	-0.0014	0.1645	-0.0120	0.0217	0.6115				
62	22.11	-0.04	3.3056	1.9933	-0.0469	0.0996	-0.0120	0.0182	0.6030				
63	22.43	-0.04	3.3537	2.0590	0.0046	0.0606	-0.0180	0.0124	0.6140				
64	22.71	-0.03	3.3842	2.0563	0.0694	0.0258	-0.0170	0.0112	0.6076				
65	23.05	-0.03	3.5053	2.1746	0.0202	0.1127	-0.0240	0.0075	0.6204				
66	23.37	-0.03	3.5697	2.1844	0.0050	0.1010	-0.0220	0.0024	0.6119				
67	23.69	-0.05	3.6257	2.2130	-0.0062	0.0127	-0.0220	0.0023	0.6104				
68	24.02	-0.04	3.7110	2.3146	0.0263	-0.0148	-0.0250	-0.0022	0.6237				
69	24.31	-0.04	3.7803	2.3556	-0.0477	0.2787	-0.0260	-0.0029	0.6242				
70	24.68	-0.04	3.9343	2.5030	0.0249	0.0341	-0.0290	-0.0077	0.6362				
71	24.99	-0.05	3.9954	2.5594	-0.0453	0.0374	-0.0250	-0.0094	0.6406				
72	25.31	-0.05	4.0330	2.6418	-0.1021	0.2479	-0.0290	-0.0153	0.6550				
73	25.61	-0.04	4.1190	2.6604	-0.1020	0.3318	-0.0220	-0.0180	0.6459				
74	25.93	-0.06	4.2408	2.8717	-0.1568	0.1945	-0.0180	-0.0268	0.6771				
75	26.22	-0.05	4.2835	2.9049	-0.0617	0.0494	-0.0230	-0.0331	0.6781				
76	26.51	-0.06	4.3645	2.9665	-0.0687	-0.1638	-0.0180	-0.0358	0.6797				
77	26.83	-0.05	4.4484	3.0840	-0.0535	0.0455	-0.0220	-0.0473	0.6933				
78	27.12	-0.04	4.5255	3.1411	0.0145	-0.0193	-0.0260	-0.0556	0.6941				
79	27.44	-0.04	4.5903	3.2073	0.0696	-0.1294	-0.0220	-0.0664	0.6987				
80	27.76	-0.07	4.7160	3.3003	-0.0289	-0.0315	-0.0210	-0.0717	0.6998				
81	28.08	-0.05	4.8183	3.4121	0.3531	-0.6703	-0.0240	-0.0806	0.7082				
82	28.37	-0.05	4.8673	3.5175	0.1690	-0.3406	-0.0270	-0.0854	0.7227				
83	28.69	-0.05	4.9449	3.5578	0.1786	-0.3320	-0.0260	-0.0879	0.7195				
84	29.00	-0.05	5.0124	3.6702	0.2852	-0.5192	-0.0280	-0.0990	0.7322				
85	29.35	-0.09	5.1788	3.8982	0.0629	-0.7410	-0.0240	-0.1039	0.7527				
86	29.67	-0.08	5.2865	4.0974	-0.0697	-0.1704	-0.0270	-0.1178	0.7751				
87	29.96	-0.06	5.3613	4.0617	-0.0676	-0.1703	-0.0300	-0.1115	0.7576				
88	30.26	0.08	5.5594	4.1563	0.7309	0.6905	-0.0550	-0.1485	0.7476				

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	39	0.97	1.7	0.0	82W3FU	16.750	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.81	0.01	-0.2653	-0.3485	0.0616	0.0728	0.0010	0.1746	1.3139	
2	-2.50	-0.01	-0.2534	-0.3252	-0.0002	0.0343	0.0020	0.1701	1.2835	
3	-1.89	0.0	-0.2044	-0.2298	0.1432	0.0685	0.0	0.1760	1.1245	
4	-1.31	0.0	-0.1247	-0.1444	0.1352	0.0157	0.0010	0.1749	1.1581	
5	-0.73	-0.01	-0.0681	-0.0826	0.1118	-0.0125	0.0010	0.1779	1.2138	
6	-0.20	-0.01	-0.0114	-0.0120	0.0435	0.0231	0.0020	0.1775	1.0561	
7	0.36	-0.01	0.0503	0.0776	0.0541	0.0932	0.0020	0.1807	1.5423	
8	0.88	0.0	0.0791	0.1362	0.0886	0.1509	0.0010	0.1830	1.7226	
9	1.42	0.0	0.1531	0.2056	0.0940	0.0214	0.0010	0.1843	1.3433	
10	1.93	0.01	0.2333	0.2843	0.1457	0.0490	0.0	0.1905	1.2189	
11	2.41	0.01	0.2523	0.3397	0.1647	0.0164	0.0020	0.1855	1.3467	
12	2.92	-0.02	0.3069	0.4123	-0.0432	0.1595	0.0030	0.1897	1.3436	
13	3.39	-0.01	0.3987	0.4736	-0.0087	0.1462	0.0030	0.1878	1.1878	
14	3.87	0.0	0.4374	0.5364	0.1014	0.0410	0.0050	0.1895	1.2263	
15	4.31	-0.02	0.4740	0.5822	-0.0033	0.0996	0.0050	0.1933	1.2281	
16	4.79	0.01	0.5401	0.6176	0.1429	0.2189	0.0040	0.1976	1.1435	
17	5.25	-0.02	0.5968	0.6543	0.0365	0.0239	0.0050	0.1962	1.0962	
18	5.75	-0.02	0.6794	0.7416	0.0109	0.0287	0.0040	0.2040	1.0915	
19	6.19	0.0	0.7597	0.7822	0.1244	0.0238	0.0050	0.2043	1.0296	
20	6.66	0.02	0.7695	0.7885	0.0437	0.0858	0.0060	0.2098	1.0246	
21	7.12	0.0	0.8543	0.8197	0.0783	0.1054	0.0070	0.2126	0.9596	
22	7.59	-0.04	0.9333	0.8791	0.0286	0.0670	0.0080	0.2110	0.9420	
23	8.04	0.0	1.0129	0.9307	0.1124	0.0749	0.0060	0.2123	0.9189	
24	8.47	-0.03	1.0667	0.9744	0.0324	0.1076	0.0070	0.2130	0.9135	
25	8.90	-0.03	1.0936	0.9677	0.0462	0.1133	0.0080	0.2087	0.8849	
26	9.32	-0.04	1.2087	1.0374	0.0704	-0.0166	0.0080	0.2044	0.8583	
27	9.74	-0.04	1.2699	1.0797	0.0122	0.0299	0.0070	0.2063	0.8502	
28	10.16	-0.01	1.3351	1.1024	0.0553	0.0696	0.0070	0.2025	0.8257	
29	10.58	-0.02	1.3862	1.1349	-0.0304	0.1025	0.0090	0.2008	0.8187	
30	11.00	-0.01	1.4388	1.1463	0.0486	0.0520	0.0090	0.1925	0.7967	
31	11.42	0.0	1.5452	1.1973	0.0333	0.2443	0.0090	0.1899	0.7748	
32	11.79	-0.01	1.5753	1.2031	0.0365	0.0853	0.0080	0.1860	0.7638	
33	12.14	0.0	1.6576	1.2299	0.0682	0.1393	0.0100	0.1846	0.7420	
34	12.53	-0.01	1.7316	1.2683	0.0680	0.1078	0.0100	0.1791	0.7325	
35	12.90	-0.03	1.7685	1.2597	-0.0108	0.1581	0.0090	0.1776	0.7123	
36	13.27	-0.02	1.8718	1.3130	-0.0192	0.1619	0.0110	0.1753	0.7015	
37	13.60	-0.01	1.9429	1.3393	0.0067	0.1396	0.0120	0.1705	0.6893	
38	13.99	0.0	2.0017	1.3580	0.0875	0.1155	0.0110	0.1655	0.6784	
39	14.39	0.0	2.0392	1.3875	0.0773	0.1428	0.0120	0.1622	0.6804	
40	14.75	-0.01	2.1545	1.4041	0.0225	0.0895	0.0140	0.1615	0.6517	
41	15.07	-0.03	2.1998	1.4297	0.0243	0.1860	0.0120	0.1563	0.6499	
42	15.43	0.0	2.2886	1.4394	0.1224	0.1726	0.0120	0.1474	0.6289	
43	15.83	-0.03	2.3215	1.4443	0.0212	0.1953	0.0130	0.1470	0.6221	
44	16.16	-0.04	2.3754	1.4918	-0.0112	0.1617	0.0060	0.1412	0.6280	
45	16.52	-0.04	2.4509	1.5311	-0.0282	0.1805	0.0040	0.1356	0.6247	
46	16.84	-0.02	2.5367	1.5750	-0.1211	0.1645	0.0040	0.1357	0.6209	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	OEL1	OEL2	DEL3	OEL4	TRANSITION
6	39	0.97	1.7	0.0	B2W3FO	16.750	OFF	OFF	OFF	OFF
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	17.20	-0.04	2.6020	1.5936	-0.0797	0.2246	0.0030	0.1250	0.6125	
48	17.51	-0.01	2.6672	1.6393	-0.0107	0.2389	0.0020	0.1246	0.6146	
49	17.83	-0.04	2.7380	1.6940	-0.0931	0.3193	0.0	0.1256	0.6187	
50	18.18	-0.04	2.8006	1.7484	-0.0862	0.2666	0.0010	0.1194	0.6243	
51	18.49	-0.05	2.8115	1.7921	-0.0537	0.1492	0.0120	0.1124	0.6374	
52	18.84	-0.05	2.8603	1.8138	-0.0500	0.1130	0.0120	0.1126	0.6341	
53	19.18	-0.06	2.9601	1.8951	-0.1291	0.1557	0.0140	0.1046	0.6402	
54	19.53	-0.03	3.0098	1.9115	-0.0256	0.2988	0.0110	0.1020	0.6351	
55	19.85	-0.04	3.1100	2.0302	-0.0979	0.1920	0.0130	0.0997	0.6528	
56	20.19	-0.03	3.1303	2.0588	0.0661	0.0874	0.0090	0.1009	0.6577	
57	20.52	-0.04	3.2147	2.1026	-0.0201	0.1501	0.0110	0.0942	0.6541	
58	20.88	-0.03	3.3032	2.1477	0.0540	0.0674	0.0080	0.0887	0.6502	
59	21.23	-0.03	3.3649	2.1623	0.0166	0.2467	0.0010	0.0731	0.6426	
60	21.56	-0.05	3.4354	2.2196	-0.0920	0.1448	0.0020	0.0724	0.6461	
61	21.90	-0.06	3.5198	2.3133	-0.1195	0.0453	0.0010	0.0628	0.6572	
62	22.23	-0.03	3.5712	2.3133	0.0465	0.1449	-0.0010	0.0555	0.6478	
63	22.58	-0.06	3.6719	2.3473	-0.0243	0.1000	-0.0020	0.0501	0.6529	
64	22.88	-0.05	3.6649	2.4161	0.0242	0.1191	-0.0040	0.0417	0.6593	
65	23.23	-0.07	3.7878	2.5351	-0.0344	0.0421	-0.0050	0.0391	0.6693	
66	23.51	-0.07	3.9294	2.6408	-0.0861	0.1515	-0.0010	0.0271	0.6721	
67	23.86	-0.06	3.9604	2.7234	0.0578	0.0571	-0.0060	0.0268	0.6877	
68	24.20	-0.06	4.0617	2.8306	0.0336	0.0999	-0.0060	0.0184	0.6969	
69	24.51	-0.07	4.1413	2.9821	0.0009	0.0117	-0.0090	0.0130	0.7201	
70	24.84	-0.06	4.2003	2.9494	0.0339	0.1165	-0.0070	0.0067	0.7022	
71	25.19	-0.08	4.3084	3.0710	-0.0300	-0.0030	-0.0060	0.0042	0.7126	
72	25.46	-0.07	4.3021	3.0948	-0.0611	0.1295	-0.0130	-0.0016	0.7194	
73	25.80	-0.07	4.4707	3.2958	-0.0487	0.1602	-0.0090	-0.0059	0.7372	
74	26.13	-0.09	4.5772	3.4006	-0.1193	0.0740	-0.0100	-0.0148	0.7430	
75	26.43	-0.07	4.7552	3.5364	0.0297	-0.0076	-0.0120	-0.0171	0.7437	
76	26.75	-0.07	4.7356	3.6258	-0.2072	0.1900	-0.0090	-0.0235	0.7657	
77	27.05	-0.05	4.8211	3.6751	0.0333	0.1064	-0.0060	-0.0277	0.7623	
78	27.36	-0.07	5.0256	3.8577	-0.1603	0.3244	-0.0090	-0.0390	0.7676	
79	27.68	-0.08	5.0753	3.9951	-0.0476	-0.0074	-0.0150	-0.0517	0.7872	
80	27.96	-0.07	5.0725	3.9760	-0.1380	0.2672	-0.0090	-0.0532	0.7838	
81	28.29	-0.07	5.2100	4.1595	-0.0128	0.0939	-0.0150	-0.0578	0.7984	
82	28.58	-0.05	5.2308	4.1394	0.0412	0.0583	-0.0140	-0.0655	0.7913	
83	28.91	-0.05	5.3573	4.3282	0.0031	0.1096	-0.0130	-0.0676	0.8079	
84	29.25	-0.06	5.5578	4.5365	0.1131	-0.2223	-0.0240	-0.0701	0.8162	
85	29.58	-0.06	5.6664	4.7184	0.0818	-0.1515	-0.0210	-0.0702	0.8327	
86	29.93	-0.03	5.8159	4.9690	0.3661	-0.5075	-0.0310	-0.0690	0.8544	
87	30.27	-0.04	5.9552	5.1849	0.2267	-0.2224	-0.0300	-0.0606	0.8707	

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	40	1.01	1.7	0.0	B2N3F0	16.750	OFF	OFF	OFF	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.81	0.02	-0.2690	-0.3644	0.1050	0.1150	0.0040	0.2297	1.3546	
2	-2.82	0.03	-0.2780	-0.3877	0.1483	0.1414	0.0010	0.2349	1.3950	
3	-2.44	0.01	-0.2100	-0.3190	-0.0015	0.1311	0.0030	0.2313	1.5190	
4	-1.79	-0.01	-0.1808	-0.2269	0.0657	0.0590	0.0030	0.2318	1.2549	
5	-1.23	-0.01	-0.1228	-0.1821	0.0628	0.0471	0.0030	0.2316	1.4827	
6	-0.65	-0.02	-0.0658	-0.0659	0.0202	0.0437	0.0030	0.2353	1.0620	
7	-0.10	0.0	0.0034	-0.0028	0.0258	0.1349	0.0040	0.2314	-0.8118	
8	0.46	0.0	0.0529	0.0849	0.0760	0.1046	0.0020	0.2354	1.6057	
9	0.98	0.0	0.1135	0.1531	0.0194	0.1188	0.0040	0.2418	1.3489	
10	1.48	0.01	0.1674	0.2206	0.1379	0.0739	0.0040	0.2395	1.3180	
11	2.01	-0.01	0.2186	0.3059	0.0280	0.0908	0.0050	0.2421	1.3996	
12	2.52	0.02	0.2930	0.3788	0.1081	0.1336	0.0020	0.2385	1.2928	
13	3.01	-0.01	0.3424	0.4346	-0.0383	0.1806	0.0040	0.2367	1.2694	
14	3.48	-0.01	0.3930	0.5176	0.0234	0.0872	0.0060	0.2432	1.3169	
15	3.96	0.0	0.4506	0.5729	0.1018	0.0615	0.0040	0.2341	1.2714	
16	4.43	-0.01	0.5254	0.6012	0.0469	0.1183	0.0040	0.2401	1.1442	
17	4.90	-0.03	0.5872	0.6847	0.0304	0.0624	0.0060	0.2507	1.1660	
18	5.35	-0.01	0.6458	0.7266	0.0705	0.1063	0.0050	0.2548	1.1252	
19	5.84	0.0	0.6928	0.7808	0.1154	0.0984	0.0060	0.2600	1.1271	
20	6.31	0.01	0.7689	0.8573	0.1787	0.0988	0.0050	0.2611	1.1150	
21	6.78	-0.01	0.8141	0.9110	0.0559	0.1077	0.0060	0.2532	1.1190	
22	7.23	-0.02	0.8688	0.9424	0.1141	0.0623	0.0070	0.2650	1.0848	
23	7.67	-0.04	0.9497	0.9962	-0.0285	0.1339	0.0080	0.2647	1.0489	
24	8.13	-0.02	1.0369	1.0371	0.1046	0.0746	0.0070	0.2638	1.0002	
25	8.55	0.0	1.0429	1.0647	0.0531	0.1506	0.0090	0.2645	1.0209	
26	9.01	0.0	1.1521	1.1116	0.1198	0.1473	0.0080	0.2726	0.9648	
27	9.41	-0.03	1.2155	1.1579	0.0351	0.1118	0.0110	0.2712	0.9526	
28	9.85	-0.04	1.2693	1.1965	-0.0377	0.1438	0.0110	0.2657	0.9427	
29	10.26	-0.02	1.3282	1.2261	0.1185	0.1371	0.0090	0.2612	0.9231	
30	10.67	-0.05	1.4008	1.2724	-0.0126	0.0406	0.0100	0.2576	0.9084	
31	11.07	0.0	1.4799	1.3227	0.0939	0.1585	0.0110	0.2497	0.8938	
32	11.48	-0.02	1.5058	1.3304	0.0491	0.1512	0.0110	0.2451	0.8835	
33	11.88	-0.01	1.5964	1.3516	0.1140	0.1934	0.0110	0.2412	0.8467	
34	12.24	0.01	1.6573	1.3723	0.1241	0.1912	0.0120	0.2381	0.8281	
35	12.58	0.0	1.7502	1.3673	0.0611	0.1514	0.0140	0.2340	0.7812	
36	13.01	-0.02	1.7715	1.4274	0.1328	0.0601	0.0120	0.2284	0.8058	
37	13.37	0.0	1.8964	1.4416	0.0781	0.1396	0.0130	0.2219	0.7602	
38	13.72	-0.01	1.9845	1.4621	0.0566	0.1777	0.0140	0.2147	0.7367	
39	14.07	-0.01	1.9872	1.4913	0.0483	0.1634	0.0140	0.2138	0.7504	
40	14.44	0.0	2.0644	1.5222	0.0751	0.1768	0.0150	0.2083	0.7374	
41	14.84	-0.04	2.1624	1.5450	0.0004	0.1234	0.0150	0.2041	0.7145	
42	15.21	-0.01	2.1930	1.5612	-0.0028	0.1969	0.0150	0.1991	0.7119	
43	15.52	-0.02	2.2902	1.6331	-0.0175	0.1095	0.0160	0.1910	0.7131	
44	15.89	0.0	2.3395	1.6811	0.0485	0.1775	0.0160	0.1924	0.7186	
45	16.24	-0.02	2.4110	1.6870	-0.0040	0.1826	0.0160	0.1839	0.6997	
46	16.60	-0.06	2.4802	1.7251	-0.1232	0.1315	0.0190	0.1792	0.6955	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST 6	PART 40	MACH 1.01	RX10-6 1.7	PHI 0.0	CONF B2W3F0	L 16.750	DEL1 OFF	DEL2 OFF	DEL3 OFF	DEL4 OFF	TRANSITION FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	GLL	CAF	XCP		
47	16.94	-0.03	2.5631	1.7780	-0.0104	0.2395	0.0160	0.1764	0.6937		
48	17.27	-0.03	2.5829	1.7653	-0.1144	0.2151	0.0200	0.1749	0.6835		
49	17.65	-0.02	2.7107	1.8772	-0.0497	0.1556	0.0180	0.1675	0.6925		
50	17.96	-0.04	2.7631	1.9059	-0.0761	0.1685	0.0170	0.1692	0.6897		
51	18.29	-0.03	2.7649	1.9013	-0.0314	0.2939	0.0180	0.1645	0.6877		
52	18.62	-0.05	2.8258	1.9281	-0.1320	0.3008	0.0140	0.1534	0.6823		
53	18.98	-0.04	2.9381	1.9978	-0.0195	0.1633	0.0130	0.1459	0.6800		
54	19.31	-0.03	2.9889	2.0487	-0.0325	0.2685	0.0120	0.1413	0.6854		
55	19.66	-0.05	3.0589	2.0717	-0.1015	0.2791	0.0110	0.1394	0.6773		
56	20.01	-0.05	3.1542	2.1923	-0.0831	0.1283	0.0110	0.1340	0.6950		
57	20.35	-0.05	3.2067	2.2508	-0.1437	0.3161	0.0120	0.1280	0.7019		
58	20.65	-0.03	3.2290	2.2715	0.0357	0.1760	0.0030	0.1293	0.7035		
59	21.03	-0.04	3.3380	2.3489	-0.0889	0.3224	0.0020	0.1208	0.7037		
60	21.37	-0.06	3.4391	2.3813	-0.1086	0.1170	0.0080	0.1165	0.6924		
61	21.73	-0.05	3.5296	2.4075	-0.0559	0.1432	0.0060	0.1083	0.6821		
62	22.04	-0.05	3.5945	2.4667	-0.0248	0.1793	0.0040	0.1044	0.6862		
63	22.37	-0.07	3.7079	2.5279	-0.1296	0.1544	0.0070	0.0967	0.6818		
64	22.69	-0.04	3.7222	2.5229	-0.0145	0.1913	0.0090	0.0956	0.6778		
65	23.01	-0.03	3.8580	2.6118	0.0186	0.2469	0.0080	0.0874	0.6770		
66	23.34	-0.03	4.0016	2.7237	0.0883	0.0594	0.0050	0.0783	0.6807		
67	23.69	-0.02	4.0445	2.7626	0.1263	0.1422	0.0090	0.0743	0.6831		
68	24.01	-0.07	4.1929	2.8849	0.0011	0.0085	0.0080	0.0659	0.6880		
69	24.30	-0.05	4.2294	2.9046	0.1238	0.0087	0.0060	0.0657	0.6868		
70	24.68	-0.07	4.3512	3.0251	0.0013	0.0612	0.0130	0.0664	0.6952		
71	24.99	-0.06	4.5275	3.1573	0.0811	0.0395	0.0090	0.0719	0.6973		
72	25.36	-0.04	4.6214	3.1958	0.1220	0.1572	0.0040	0.1041	0.6915		
73	25.67	-0.05	4.6978	3.2488	0.0858	0.1019	0.0010	0.1232	0.6916		
74	25.95	-0.06	4.8516	3.3305	-0.0725	0.3555	0.0020	0.1391	0.6865		
75	26.33	-0.03	4.9195	3.3984	-0.0200	0.2800	-0.0020	0.1328	0.6908		
76	26.60	-0.07	4.9842	3.4867	-0.1484	0.3677	-0.0030	0.1216	0.6995		
77	26.91	-0.07	5.1055	3.6578	-0.1220	0.3658	-0.0100	0.1140	0.7164		
78	27.23	-0.06	5.1651	3.6214	-0.1252	0.5352	-0.0070	0.1014	0.7011		
79	27.57	-0.06	5.2897	3.8439	-0.0631	0.3973	-0.0120	0.0730	0.7267		
80	27.84	-0.07	5.3783	4.0115	-0.1070	0.3458	-0.0180	0.0620	0.7459		
81	28.17	-0.05	5.4570	4.1247	-0.0418	0.3735	-0.0180	0.0439	0.7559		
82	28.48	-0.07	5.5409	4.1612	-0.1938	0.3693	-0.0170	0.0217	0.7510		
83	28.80	-0.05	5.6409	4.2962	-0.0499	0.2758	-0.0220	0.0160	0.7616		
84	29.14	-0.04	5.7631	4.3950	0.0967	0.0266	-0.0270	0.0041	0.7633		
85	29.46	-0.04	5.8610	4.4409	0.0424	0.1776	-0.0230	-0.0089	0.7577		
86	29.78	-0.05	5.9534	4.6015	0.0659	-0.0533	-0.0340	-0.0168	0.7729		

PAGE 1 OF 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	41	1.05	1.7	0.0	B2W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.82	0.04	-0.2745	-0.3836	0.0312	0.1823	0.0040	0.3005	1.3978		
2	-2.54	0.01	-0.2676	-0.3563	0.0345	0.0737	0.0040	0.2961	1.3317		
3	-1.95	0.02	-0.2068	-0.2764	0.0633	0.0984	0.0040	0.2941	1.3369		
4	-1.37	-0.01	-0.1416	-0.1947	0.0259	0.0577	0.0040	0.2900	1.3754		
5	-0.75	0.03	-0.0643	-0.1090	0.0365	0.0659	0.0050	0.2913	1.6949		
6	-0.22	0.04	0.0001	-0.0231	0.0636	0.0809	0.0040	0.2925-231	4.000		
7	0.30	0.01	0.0361	0.0485	0.0556	0.0931	0.0050	0.3013	1.3424		
8	0.86	0.02	0.0825	0.1445	0.0903	0.0836	0.0040	0.3092	1.7515		
9	1.36	0.01	0.1531	0.2146	0.0311	0.0554	0.0050	0.2977	1.4021		
10	1.91	0.01	0.2278	0.2820	0.0362	0.1123	0.0040	0.3000	1.2383		
11	2.39	0.02	0.2821	0.3280	0.1386	0.0350	0.0050	0.2920	1.1629		
12	2.90	0.01	0.3579	0.4009	0.0381	0.0437	0.0040	0.2895	1.1203		
13	3.37	0.01	0.3976	0.4682	0.0514	0.0770	0.0040	0.2929	1.1773		
14	3.86	0.0	0.4571	0.5279	-0.0127	0.0608	0.0060	0.2961	1.1547		
15	4.30	0.02	0.5131	0.5694	0.1011	0.0864	0.0060	0.2892	1.1097		
16	4.78	0.0	0.5835	0.6429	0.0535	0.0891	0.0070	0.3083	1.1017		
17	5.25	-0.01	0.6425	0.6723	0.0322	0.0789	0.0050	0.3129	1.0463		
18	5.73	0.0	0.6983	0.7291	0.0703	0.0666	0.0060	0.3197	1.0442		
19	6.18	-0.01	0.7724	0.7784	0.0177	0.1052	0.0060	0.3134	1.0078		
20	6.64	0.0	0.8475	0.8203	-0.0102	0.1323	0.0070	0.3177	0.9679		
21	7.12	-0.01	0.9206	0.8509	0.0048	0.1173	0.0080	0.3146	0.9243		
22	7.57	0.02	0.9687	0.9006	0.0627	0.0192	0.0080	0.3155	0.9247		
23	8.03	0.01	1.0271	0.9548	0.0248	0.0723	0.0080	0.3155	0.9296		
24	8.46	0.0	1.0741	0.9650	0.0810	0.1286	0.0090	0.3229	0.8985		
25	8.90	-0.01	1.1594	1.0184	0.0597	0.1274	0.0080	0.3160	0.8784		
26	9.31	-0.01	1.1986	1.0365	0.0544	0.0311	0.0110	0.3236	0.8648		
27	9.73	0.04	1.2857	1.0846	-0.0175	0.1615	0.0090	0.3251	0.8436		
28	10.17	-0.02	1.3435	1.1207	-0.0273	0.0832	0.0130	0.3264	0.8441		
29	10.57	-0.07	1.3745	1.1473	0.0057	0.0330	0.0130	0.3205	0.8347		
30	11.01	0.0	1.4823	1.1913	0.0406	0.0801	0.0120	0.3207	0.8037		
31	11.40	-0.02	1.5472	1.2565	-0.0267	0.0744	0.0130	0.3217	0.8121		
32	11.80	-0.01	1.5991	1.2878	-0.0004	0.0476	0.0150	0.3195	0.8053		
33	12.16	0.01	1.6788	1.3132	0.0080	0.0898	0.0140	0.3157	0.7823		
34	12.56	0.0	1.7358	1.3224	-0.0426	0.0386	0.0160	0.3073	0.7619		
35	12.91	0.01	1.7867	1.3612	0.0359	0.0797	0.0170	0.3050	0.7618		
36	13.27	0.0	1.8762	1.3769	0.0443	0.0070	0.0160	0.3019	0.7339		
37	13.63	-0.02	1.9350	1.3764	-0.0503	0.0274	0.0170	0.2954	0.7113		
38	14.02	-0.01	2.0248	1.4077	-0.0012	0.0647	0.0170	0.2909	0.6952		
39	14.39	-0.02	2.0486	1.4044	-0.0223	0.0462	0.0180	0.2878	0.6855		
40	14.72	-0.02	2.1670	1.3996	-0.0286	0.1110	0.0150	0.2766	0.6459		
41	15.08	0.0	2.2273	1.4472	0.0500	0.1750	0.0170	0.2631	0.6497		
42	15.46	-0.01	2.2999	1.4595	0.0026	0.1103	0.0170	0.2493	0.6346		
43	15.85	0.0	2.3645	1.5261	0.0290	0.1824	0.0180	0.2450	0.6454		
44	16.17	-0.03	2.4297	1.5568	-0.1090	0.1716	0.0180	0.2434	0.6407		
45	16.49	-0.01	2.4848	1.5857	-0.0020	0.2208	0.0160	0.2485	0.6381		
46	16.84	-0.01	2.5590	1.6028	-0.0035	0.1949	0.0190	0.2582	0.6263		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	41	1.05	1.7	0.0	B2W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP		
47	17.17	-0.02	2.6296	1.6459	-0.0510	0.1804	0.0170	0.2671	0.6259		
48	17.52	-0.01	2.6914	1.6793	0.0017	0.2146	0.0170	0.2605	0.6239		
49	17.85	-0.03	2.7559	1.7070	-0.0500	0.1530	0.0180	0.2587	0.6194		
50	18.20	-0.03	2.8180	1.7610	-0.1095	0.1423	0.0160	0.2608	0.6249		
51	18.54	-0.03	2.9019	1.8155	-0.0815	0.2201	0.0170	0.2516	0.6256		
52	18.89	-0.01	2.9690	1.8906	-0.0337	0.2601	0.0130	0.2389	0.6368		
53	19.22	-0.01	3.0249	1.9093	-0.0025	0.2505	0.0150	0.2268	0.6312		
54	19.58	-0.02	3.0690	2.0156	0.0009	0.1157	0.0100	0.2133	0.6568		
55	19.89	-0.02	3.1599	2.0723	-0.0302	0.1313	0.0110	0.2026	0.6558		
56	20.22	-0.01	3.2317	2.1448	0.0045	0.1757	0.0120	0.1836	0.6637		
57	20.59	-0.01	3.2942	2.2043	0.0195	0.1577	0.0090	0.1645	0.6691		
58	20.92	-0.03	3.3669	2.2385	-0.0316	0.0782	0.0080	0.1627	0.6649		
59	21.27	-0.03	3.4500	2.2870	0.0032	0.0935	0.0100	0.1650	0.6629		
60	21.61	-0.03	3.5393	2.3590	-0.0065	0.0741	0.0090	0.1505	0.6665		
61	21.95	-0.03	3.5941	2.4162	0.0931	0.0017	0.0070	0.1427	0.6723		
62	22.29	-0.03	3.7019	2.4613	0.0265	0.0463	0.0090	0.1404	0.6649		
63	22.63	-0.03	3.7841	2.5212	-0.0011	0.1385	0.0100	0.1344	0.6663		
64	22.96	-0.03	3.8641	2.5582	0.0172	0.0609	0.0120	0.1475	0.6621		
65	23.27	-0.03	4.0039	2.6025	0.0324	0.1476	0.0110	0.1576	0.6500		
66	23.58	-0.03	4.1166	2.6737	0.0825	0.0705	0.0070	0.1757	0.6495		
67	23.93	-0.03	4.2084	2.6251	0.0660	0.1326	0.0070	0.1875	0.6247		
68	24.27	-0.02	4.3489	2.7083	0.0825	0.1305	0.0120	0.1980	0.6228		
69	24.57	-0.03	4.4351	2.8307	0.0347	0.1314	0.0080	0.2018	0.6382		
70	24.96	-0.03	4.5084	2.8990	0.0675	0.0725	0.0070	0.2000	0.6430		
71	25.23	-0.03	4.5588	3.0094	0.0005	0.1703	0.0090	0.1915	0.6601		
72	25.58	-0.03	4.6859	3.1055	0.0009	0.2417	-0.0040	0.1806	0.6627		
73	25.90	-0.04	4.7500	3.0968	-0.0216	0.3252	-0.0040	0.1755	0.6520		
74	26.16	-0.05	4.8535	3.2028	-0.0238	0.3093	-0.0110	0.1747	0.6599		
75	26.52	-0.05	4.9326	3.1911	-0.0780	0.3931	-0.0050	0.1669	0.6469		
76	26.83	-0.05	5.0523	3.3204	-0.1088	0.4613	-0.0070	0.1482	0.6572		
77	27.12	-0.06	5.1726	3.4749	-0.1193	0.2670	-0.0020	0.1294	0.6718		
78	27.43	-0.05	5.2640	3.7339	0.0134	0.2022	-0.0070	0.0859	0.7093		
79	27.80	-0.05	5.4023	3.8083	0.0236	0.1169	-0.0070	0.0595	0.7049		
80	28.09	-0.06	5.4567	3.8891	-0.0723	0.2722	-0.0040	0.0403	0.7127		
81	28.42	-0.05	5.6303	3.9791	-0.0007	0.1540	-0.0160	0.0512	0.7067		
82	28.72	-0.05	5.8143	4.0373	-0.0086	0.2300	-0.0190	0.0696	0.6944		
83	29.00	-0.05	5.9136	4.0123	0.0896	-0.0004	-0.0200	0.0942	0.6785		
84	29.32	-0.04	6.0099	3.9475	0.0762	0.1463	-0.0230	0.1118	0.6568		
85	29.65	-0.06	6.1390	4.0247	-0.0684	0.1897	-0.0310	0.1137	0.6556		
86	29.97	-0.02	6.1909	3.9211	0.1616	0.2917	-0.0320	0.1109	0.6334		
87	30.29	-0.03	6.2871	3.9564	0.2166	-0.0462	-0.0250	0.0980	0.6293		

PAGE 1 of 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	42	1.10	1.7	0.0	B2W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
2	-2.51	0.15	-0.2311	-0.3094	0.0912	0.1453	0.0060	0.2908	1.3391		
3	-1.93	0.03	-0.1753	-0.2405	-0.0545	0.1243	0.0070	0.2851	1.3724		
4	-1.35	0.02	-0.1073	-0.1538	0.0015	0.2229	0.0040	0.2836	1.4332		
5	-0.74	0.02	-0.0547	-0.0444	-0.0483	0.1556	0.0050	0.2762	0.8121		
6	-0.21	0.04	-0.0091	0.0107	-0.0684	0.2254	0.0040	0.2927	-1.1802		
7	0.34	-0.01	0.0459	0.1087	-0.1516	0.2322	0.0050	0.2970	2.3691		
8	0.87	0.0	0.0925	0.1815	0.0875	0.1715	0.0050	0.3035	1.9622		
9	1.40	0.0	0.1682	0.2305	0.1007	0.1190	0.0040	0.2941	1.3705		
10	1.92	0.02	0.2502	0.3317	0.1073	0.1358	0.0060	0.3078	1.3258		
11	2.43	0.03	0.2596	0.3995	0.0407	0.0750	0.0060	0.3122	1.5391		
12	2.91	0.0	0.3484	0.4632	0.0441	0.0563	0.0070	0.3125	1.3296		
13	3.40	0.04	0.3734	0.4822	0.0474	0.1316	0.0060	0.3070	1.2915		
14	3.86	0.05	0.4146	0.5773	-0.0500	0.1560	0.0080	0.3258	1.3924		
15	4.32	0.07	0.5070	0.6310	0.2041	0.1082	0.0080	0.3161	1.2444		
16	4.79	0.06	0.5771	0.6718	0.0545	0.1377	0.0060	0.3200	1.1641		
17	5.25	-0.06	0.6018	0.7412	-0.0723	0.1662	0.0070	0.3320	1.2317		
18	5.75	-0.08	0.7130	0.7736	-0.0527	0.1068	0.0080	0.3378	1.0849		
19	6.19	-0.08	0.7787	0.8166	-0.1421	0.1639	0.0090	0.3371	1.0486		
20	6.66	0.07	0.8074	0.8784	0.0698	0.1153	0.0110	0.3345	1.0879		
21	7.11	-0.03	0.8519	0.9061	-0.0931	0.1513	0.0080	0.3463	1.0636		
22	7.58	0.02	0.9284	0.9820	0.1729	0.1109	0.0090	0.3458	1.0577		
23	8.04	0.0	0.9663	0.9829	0.0833	0.0484	0.0090	0.3456	1.0172		
24	8.48	0.02	1.0800	1.0527	0.0869	0.0403	0.0110	0.3527	0.9748		
25	8.92	0.01	1.1442	1.0717	-0.0681	0.2623	0.0110	0.3486	0.9366		
26	9.33	0.08	1.1887	1.1084	0.2618	0.0575	0.0100	0.3419	0.9324		
27	9.75	-0.05	1.2644	1.1214	0.1411	0.0745	0.0090	0.3293	0.8869		
28	10.17	-0.08	1.2733	1.1769	-0.1640	0.1936	0.0130	0.3422	0.9243		
29	10.60	-0.05	1.4014	1.2446	-0.0920	0.1238	0.0120	0.3345	0.8881		
30	11.02	0.03	1.4707	1.2396	-0.0854	0.2445	0.0110	0.3317	0.8428		
31	11.43	0.07	1.5096	1.2691	0.0629	0.3209	0.0100	0.3276	0.8407		
32	11.81	0.08	1.6039	1.2921	0.1701	0.0149	0.0100	0.3197	0.8056		
33	12.19	0.02	1.6836	1.3335	0.0441	0.1752	0.0120	0.3201	0.7921		
34	12.56	0.01	1.7392	1.3707	-0.0360	0.2234	0.0130	0.3208	0.7881		
35	12.94	0.08	1.7656	1.3657	0.0114	0.0640	0.0160	0.3188	0.7735		
36	13.28	-0.02	1.8383	1.3979	-0.1209	0.1872	0.0130	0.3171	0.7605		
37	13.63	-0.02	1.9183	1.4188	0.0380	-0.0292	0.0150	0.3192	0.7396		
38	14.03	0.01	2.0064	1.4384	-0.0028	0.2019	0.0160	0.3126	0.7169		
39	14.40	0.04	2.0597	1.4688	0.3119	0.0863	0.0140	0.3064	0.7131		
40	14.75	0.0	2.1261	1.5268	0.0220	0.1762	0.0150	0.3134	0.7181		
41	15.11	-0.03	2.1999	1.5515	-0.0891	0.1417	0.0170	0.3081	0.7053		
42	15.46	0.09	2.2263	1.5406	0.1303	0.3525	0.0160	0.3009	0.6920		
43	15.85	0.02	2.3108	1.5613	-0.1133	-0.0674	0.0160	0.2955	0.6756		
44	16.22	0.03	2.4245	1.6461	0.0979	0.2415	0.0160	0.2936	0.6789		
45	16.55	-0.04	2.4694	1.6952	-0.0248	0.0747	0.0180	0.2853	0.6865		
46	16.90	0.0	2.5569	1.6617	0.1097	0.2894	0.0150	0.2798	0.6499		
47	17.22	-0.05	2.6468	1.7278	-0.0196	0.1494	0.0150	0.2793	0.6528		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 of 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6	42	1.10 1.7	0.0	B2W3FO	16.750	OFF	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
48	17.52	0.02	2.6589	1.7819	-0.1112	0.2826	0.0180	0.2899	0.6702	
49	17.86	0.01	2.7377	1.8874	-0.0734	0.1497	0.0140	0.2844	0.6894	
50	18.20	-0.01	2.8398	1.9205	-0.1071	0.2930	0.0130	0.2712	0.6763	
51	18.55	0.05	2.8585	1.9683	-0.0568	0.2045	0.0130	0.2759	0.6886	
52	18.90	-0.01	2.9530	2.0100	0.0827	0.0612	0.0120	0.2679	0.6807	
53	19.24	-0.04	2.9469	2.0135	-0.0811	0.2645	0.0100	0.2626	0.6833	
54	19.60	-0.02	2.9962	2.0755	-0.0975	0.2795	0.0100	0.2567	0.6927	
55	19.92	-0.05	3.1032	2.1197	-0.1171	0.2549	0.0090	0.2463	0.6831	
56	20.26	-0.01	3.1930	2.1150	-0.0169	0.1946	0.0100	0.2460	0.6624	
57	20.59	-0.02	3.2604	2.1796	-0.0760	0.2224	0.0120	0.2339	0.6685	
58	20.93	-0.01	3.3217	2.2448	0.0245	0.2607	0.0130	0.2325	0.6758	
59	21.24	-0.05	3.4022	2.2861	-0.0956	0.1818	0.0070	0.2247	0.6714	
60	21.62	0.0	3.5068	2.3385	0.0398	0.1893	0.0090	0.2254	0.6668	
61	21.95	-0.02	3.5813	2.4052	-0.0755	0.3077	0.0080	0.2187	0.6716	
62	22.32	-0.04	3.6596	2.4835	-0.0440	0.1756	0.0030	0.2134	0.6786	
63	22.65	-0.01	3.7581	2.5336	0.1972	0.0149	0.0030	0.2028	0.6742	
64	22.96	-0.04	3.8815	2.7198	-0.0106	0.0808	0.0020	0.2080	0.7007	
65	23.26	-0.03	3.9336	2.7349	0.0820	0.0472	0.0	0.2047	0.6953	
66	23.64	-0.04	4.0494	2.7308	-0.0993	0.3660	0.0060	0.1983	0.6744	
67	23.91	-0.02	4.1760	2.8145	0.0180	0.3518	0.0020	0.1941	0.6740	
68	24.28	-0.01	4.2212	2.8851	0.0874	0.2916	-0.0020	0.1851	0.6835	
69	24.56	-0.01	4.2435	2.9219	0.1485	0.0431	-0.0020	0.1892	0.6885	
70	24.92	-0.02	4.3966	2.9785	0.0612	0.2073	0.0050	0.1736	0.6775	
71	25.26	-0.03	4.5160	3.0844	-0.0901	0.5021	-0.0050	0.1664	0.6830	
72	25.55	-0.06	4.5496	3.2373	-0.1328	0.4129	-0.0050	0.1632	0.7116	
73	25.91	-0.06	4.7291	3.2810	-0.2282	0.7044	-0.0070	0.1583	0.6938	
74	26.17	-0.04	4.7883	3.3381	0.0011	0.2844	-0.0130	0.1589	0.6971	
75	26.51	-0.04	4.9138	3.5074	-0.1091	0.4267	-0.0160	0.1535	0.7138	
76	26.83	-0.02	4.9424	3.4423	0.0411	0.2334	-0.0190	0.1423	0.6965	
77	27.13	-0.05	5.1128	3.6236	0.0149	0.2641	-0.0140	0.1440	0.7087	
78	27.40	-0.04	5.2196	3.5991	-0.1086	0.4550	-0.0090	0.1376	0.6895	
79	27.79	-0.06	5.3464	3.7526	-0.1117	0.2423	-0.0150	0.1305	0.7019	
80	28.09	-0.06	5.3602	3.7653	-0.0803	0.1584	-0.0100	0.1331	0.7024	
81	28.39	-0.04	5.4943	3.8805	0.0074	0.0886	-0.0190	0.1200	0.7063	
82	28.70	-0.03	5.5933	3.9689	0.0918	0.0465	-0.0200	0.1162	0.7096	
83	29.00	-0.07	5.7061	3.9780	-0.0119	0.0027	-0.0230	0.0964	0.6971	
84	29.35	-0.05	5.9327	4.1406	0.1470	0.0132	-0.0240	0.0835	0.6979	
85	29.62	-0.02	5.8999	4.0615	0.1238	0.0227	-0.0230	0.0910	0.6884	
86	29.96	-0.02	6.0315	4.1172	0.1571	0.0201	-0.0260	0.0832	0.6826	
87	30.28	-0.03	6.1204	4.1228	0.0565	0.1149	-0.0240	0.0915	0.6736	
88	30.60	-0.03	6.3321	4.1144	0.0701	0.1428	-0.0250	0.1118	0.6498	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			43	0.85	1.7	0.0	0.2W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	-2.75	-0.01	-0.5050	0.5631	0.1370	-0.0198	0.0040	0.1481	-1.1149				
2	-2.49	-0.02	-0.4707	0.5261	0.1288	0.0907	0.0	0.1446	-1.1175				
3	-1.93	-0.04	-0.3616	0.4072	-0.0082	0.0465	0.0030	0.1501	-1.1262				
4	-1.33	-0.02	-0.2553	0.2744	0.0169	0.0473	0.0	0.1556	-1.0749				
5	-0.79	-0.03	-0.1950	0.2040	-0.0286	0.0340	0.0010	0.1558	-1.0462				
6	-0.24	-0.02	-0.1153	0.1364	0.0109	0.0637	0.0010	0.1539	-1.1032				
7	0.28	-0.03	-0.0252	0.0813	-0.0512	-0.0013	0.0010	0.1541	-3.2254				
8	0.82	-0.02	0.0442	0.0201	0.0300	0.0230	-0.0010	0.1604	0.4552				
9	1.31	-0.02	0.1343	-0.0690	0.0239	0.0085	0.0330	0.1634	-0.5139				
10	1.84	-0.02	0.2300	-0.1830	0.0116	0.0078	0.0030	0.1580	-0.7957				
11	2.32	-0.03	0.3396	-0.2914	-0.0318	-0.0085	0.0030	0.1603	-0.8582				
12	2.81	-0.03	0.4280	-0.4403	-0.0625	-0.0039	0.0010	0.1582	-1.0286				
13	3.28	-0.03	0.5194	-0.5722	0.0055	-0.0147	0.0050	0.1595	-1.1016				
14	3.74	-0.04	0.6146	-0.7405	0.0096	0.0196	0.0010	0.1622	-1.2048				
15	4.18	-0.04	0.7155	-0.8527	0.0638	0.0167	0.0030	0.1588	-1.1918				
16	4.65	-0.04	0.8265	-1.0221	0.0409	0.0457	0.0020	0.1557	-1.2367				
17	5.10	-0.06	0.9174	-1.1264	-0.0879	0.0221	0.0050	0.1543	-1.2278				
18	5.55	-0.04	1.0557	-1.3229	0.0138	0.0137	0.0070	0.1526	-1.2532				
19	6.01	-0.04	1.1511	-1.4586	0.0097	-0.0116	0.0040	0.1546	-1.2671				
20	6.45	-0.05	1.2787	-1.6762	-0.0363	-0.0324	0.0080	0.1506	-1.3109				
21	6.92	-0.06	1.3492	-1.8049	-0.0196	-0.0156	0.0080	0.1505	-1.3377				
22	7.36	-0.06	1.4889	-2.0065	-0.0070	-0.0132	0.0080	0.1477	-1.3476				
23	7.80	-0.06	1.5877	-2.1858	0.0449	0.1151	0.0100	0.1456	-1.3767				
24	8.22	-0.07	1.6682	-2.3415	0.0199	-0.0379	0.0080	0.1417	-1.4036				
25	8.67	-0.08	1.7919	-2.5516	-0.0572	-0.0669	0.0100	0.1358	-1.4240				
26	9.06	-0.07	1.8981	-2.7393	-0.0116	-0.0158	0.0090	0.1309	-1.4432				
27	9.46	-0.08	2.0348	-2.9358	-0.0614	0.0710	0.0090	0.1312	-1.4427				
28	9.88	-0.07	2.1429	-3.1661	-0.0076	-0.0034	0.0080	0.1240	-1.4775				
29	10.28	-0.07	2.2672	-3.3231	-0.0241	0.0677	0.0080	0.1219	-1.4657				
30	10.68	-0.08	2.3621	-3.4969	-0.0784	0.0128	0.0100	0.1174	-1.4804				
31	11.09	-0.08	2.4773	-3.6852	-0.1033	0.0666	0.0050	0.1142	-1.4876				
32	11.46	-0.07	2.5711	-3.8515	0.0006	0.1011	0.0090	0.1089	-1.4980				
33	11.83	-0.06	2.7067	-4.0824	-0.0223	0.0292	0.0060	0.1040	-1.5082				
34	12.20	-0.07	2.7963	-4.2058	-0.0635	0.0665	0.0080	0.0970	-1.5041				
35	12.54	-0.06	2.9042	-4.5108	-0.0455	0.1577	0.0010	0.0952	-1.5532				
36	12.87	-0.07	2.9971	-4.6179	-0.1037	0.0892	-0.0020	0.0976	-1.5408				
37	13.22	-0.05	3.1511	-4.9005	-0.0305	0.2172	-0.0030	0.0918	-1.5552				
38	13.60	-0.06	3.2212	-5.0896	-0.0709	0.1142	0.0050	0.0928	-1.5800				
39	13.97	-0.06	3.3240	-5.2445	-0.0314	0.1159	0.0150	0.0873	-1.5778				
40	14.30	-0.06	3.4412	-5.4367	-0.0376	0.1186	0.0110	0.0878	-1.5799				
41	14.65	-0.06	3.5560	-5.6194	-0.0877	0.2058	0.0150	0.0833	-1.5802				
42	15.01	-0.07	3.6771	-5.7479	-0.0853	0.0984	0.0160	0.0794	-1.5631				
43	15.36	-0.07	3.7932	-5.9934	-0.1582	0.2294	0.0140	0.0741	-1.5800				
44	15.70	-0.07	3.8770	-6.1227	-0.1352	0.2063	0.0140	0.0740	-1.5792				
45	16.03	-0.06	4.0119	-6.3345	-0.0935	0.1639	0.0180	0.0726	-1.5789				
46	16.37	-0.06	4.1158	-6.4960	-0.1079	0.2600	0.0160	0.0690	-1.5783				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 43 0.85 1.7			0.0	82W3F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP	
47	16.70	-0.07	4.2233	-6.6186	-0.0953	0.2204	0.0150	0.0661	-1.5671	
48	17.02	-0.08	4.3221	-6.8109	-0.1265	0.2921	0.0130	0.0617	-1.5758	
49	17.33	-0.08	4.3265	-6.8970	-0.1424	0.3773	-0.0170	0.0641	-1.5941	
50	17.67	-0.09	4.4562	-7.1146	-0.2499	0.4428	-0.0280	0.0606	-1.5966	
51	17.99	-0.08	4.5348	-7.2556	-0.1878	0.3999	-0.0280	0.0574	-1.6030	
52	18.30	-0.08	4.5927	-7.3237	-0.1650	0.3600	-0.0220	0.0552	-1.5946	
53	18.63	-0.07	4.6795	-7.5551	-0.1155	0.3986	-0.0140	0.0530	-1.6145	
54	18.96	-0.08	4.7649	-7.6667	-0.1217	0.2463	-0.0110	0.0505	-1.6090	
55	19.29	-0.09	4.8158	-7.6330	-0.1665	0.2241	-0.0440	0.0541	-1.5850	
56	19.61	-0.08	4.9266	-7.7241	-0.0586	0.0910	-0.0480	0.0481	-1.5678	
57	19.95	-0.09	5.0377	-7.9017	-0.1433	0.1266	-0.0520	0.0467	-1.5685	
58	20.27	-0.08	5.1346	-8.0864	-0.1081	0.1063	-0.0530	0.0427	-1.5749	
59	20.61	-0.08	5.2110	-8.1993	-0.1079	0.1740	-0.0600	0.0358	-1.5735	
60	20.93	-0.10	5.3146	-8.3853	-0.1223	0.1632	-0.0630	0.0351	-1.5778	
61	21.27	-0.09	5.3838	-8.4632	-0.0993	0.2790	-0.0690	0.0288	-1.5720	
62	21.58	-0.10	5.4706	-8.5337	-0.1343	0.2200	-0.0730	0.0191	-1.5599	
63	21.88	-0.09	5.5589	-8.6633	-0.0430	0.1802	-0.0800	0.0178	-1.5585	
64	22.19	-0.10	5.6629	-8.7749	-0.0800	0.0720	-0.0870	0.0109	-1.5496	
65	22.49	-0.09	5.7463	-8.8808	-0.0096	0.1224	-0.0910	0.0088	-1.5455	
66	22.81	-0.10	5.8400	-8.9859	-0.0113	0.0018	-0.1000	0.0006	-1.5387	
67	23.12	-0.10	5.9648	-9.1226	-0.0464	0.0270	-0.0930	-0.0038	-1.5294	
68	23.43	-0.10	6.0344	-9.1971	-0.0732	0.1775	-0.0970	-0.0091	-1.5241	
69	23.73	-0.10	6.0778	-9.0659	-0.1123	0.2462	-0.0790	-0.0076	-1.4916	
70	24.08	-0.09	6.1821	-9.2169	-0.0875	0.3015	-0.0800	-0.0124	-1.4909	
71	24.37	-0.09	6.2498	-9.2396	-0.0653	0.3474	-0.0740	-0.0192	-1.4784	
72	24.68	-0.10	6.3349	-9.3957	-0.1350	0.4279	-0.0780	-0.0214	-1.4832	
73	24.97	-0.11	6.4228	-9.4488	-0.1555	0.3247	-0.0760	-0.0273	-1.4711	
74	25.27	-0.11	6.5508	-9.5921	-0.1782	0.3974	-0.0810	-0.0303	-1.4643	
75	25.56	-0.10	6.6966	-9.6292	-0.0891	0.3017	-0.0850	-0.0381	-1.4379	
76	25.87	-0.10	6.7981	-9.7223	-0.1028	0.3379	-0.0990	-0.0370	-1.4302	
77	26.16	-0.10	6.8625	-9.7375	-0.1256	0.2808	-0.0900	-0.0422	-1.4189	
78	26.46	-0.11	6.9417	-9.6764	-0.2039	0.4314	-0.1060	-0.0372	-1.3939	
79	26.76	-0.12	7.0211	-9.8215	-0.1539	0.1474	-0.1120	-0.0504	-1.3989	
80	27.06	-0.12	7.1229	-9.6930	-0.2051	0.3781	-0.1180	-0.0507	-1.3608	
81	27.38	-0.12	7.1753	-9.7174	-0.2839	0.5234	-0.1240	-0.0537	-1.3543	
82	27.67	-0.11	7.3143	-9.6842	-0.0193	0.1660	-0.1210	-0.0584	-1.3240	
83	27.96	-0.11	7.4083	-9.7337	-0.0522	0.2390	-0.1290	-0.0605	-1.3139	
84	28.26	-0.12	7.4875	-9.6036	-0.0808	0.1341	-0.1260	-0.0634	-1.2826	
85	28.58	-0.10	7.5841	-9.5419	-0.0281	0.2076	-0.1280	-0.0609	-1.2581	
86	28.89	-0.12	7.6316	-9.5604	-0.0634	0.1577	-0.1290	-0.0667	-1.2527	
87	29.19	-0.11	7.7146	-9.3486	0.0500	-0.0790	-0.1220	-0.0723	-1.2118	
88	29.52	-0.10	7.7867	-9.2886	0.1320	-0.1868	-0.1150	-0.0727	-1.1929	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
0	43	0.85	1.7	0.0	0.2M3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	-2.75	-0.01	-0.0375	0.0017	-0.0139	-0.0467	0.3705	-0.1052	0.0045	-0.0475	-0.0428	0.4520
2	-2.49	-0.02	-0.0375	0.0018	-0.0135	-0.0480	0.3705	-0.0954	0.0042	-0.0457	-0.0445	0.4789
3	-1.93	-0.04	-0.0375	0.0018	-0.0139	-0.0480	0.3705	-0.0743	0.0034	-0.0331	-0.0464	0.4449
4	-1.33	-0.02	-0.0301	0.0016	-0.0147	-0.0548	0.4894	-0.0528	0.0024	-0.0225	-0.0454	0.4260
5	-0.79	-0.03	-0.0448	0.0019	-0.0131	-0.0424	0.2930	-0.0347	0.0015	-0.0123	-0.0447	0.3534
6	-0.24	-0.02	-0.0374	0.0017	-0.0140	-0.0454	0.3733	-0.0158	0.0004	-0.0055	-0.0285	0.3459
7	0.28	-0.03	-0.0375	0.0017	-0.0139	-0.0467	0.3705	-0.0002	-0.0007	0.0014	3.7493	-7.1668
8	0.82	-0.02	-0.0375	0.0017	-0.0139	-0.0467	0.3705	0.0171	-0.0014	0.0085	-0.0848	0.4970
9	1.31	-0.02	-0.0320	0.0017	-0.0146	-0.0531	0.4551	0.0325	-0.0021	0.0166	-0.0661	0.5117
10	1.84	-0.02	-0.0301	0.0016	-0.0147	-0.0531	0.4894	0.0496	-0.0029	0.0246	-0.0585	0.4965
11	2.32	-0.03	-0.0301	0.0016	-0.0147	-0.0548	0.4894	0.0748	-0.0036	0.0351	-0.0488	0.4696
12	2.81	-0.03	-0.0246	0.0015	-0.0154	-0.0630	0.6259	0.0949	-0.0040	0.0445	-0.0427	0.4691
13	3.28	-0.03	-0.0247	0.0015	-0.0153	-0.0627	0.6207	0.1167	-0.0041	0.0547	-0.0351	0.4686
14	3.74	-0.04	-0.0192	0.0015	-0.0160	-0.0781	0.8332	0.1403	-0.0041	0.0641	-0.0292	0.4572
15	4.18	-0.04	-0.0192	0.0014	-0.0160	-0.0755	0.8332	0.1590	-0.0037	0.0721	-0.0233	0.4533
16	4.65	-0.04	-0.0137	0.0014	-0.0167	-0.1022	1.2164	0.1846	-0.0031	0.0807	-0.0168	0.4372
17	5.10	-0.06	-0.0228	0.0015	-0.0156	-0.0658	0.6841	0.2065	-0.0021	0.0893	-0.0104	0.4325
18	5.55	-0.04	-0.0247	0.0015	-0.0153	-0.0627	0.6207	0.2266	-0.0012	0.0985	-0.0053	0.4347
19	6.01	-0.04	-0.0321	0.0017	-0.0145	-0.0530	0.4516	0.2522	-0.0009	0.1068	-0.0036	0.4236
20	6.45	-0.05	-0.0229	0.0015	-0.0155	-0.0677	0.6782	0.2708	-0.0002	0.1155	-0.0009	0.4266
21	6.92	-0.06	-0.0247	0.0015	-0.0153	-0.0627	0.6207	0.2963	0.0005	0.1231	0.0017	0.4155
22	7.36	-0.06	-0.0320	0.0017	-0.0146	-0.0531	0.4551	0.3265	0.0008	0.1340	0.0026	0.4104
23	7.80	-0.06	-0.0228	0.0015	-0.0156	-0.0658	0.6841	0.3450	0.0009	0.1436	0.0028	0.4161
24	8.22	-0.07	-0.0375	0.0017	-0.0139	-0.0453	0.3705	0.3676	0.0013	0.1501	0.0035	0.4083
25	8.67	-0.08	-0.0302	0.0016	-0.0148	-0.0546	0.4888	0.3913	0.0016	0.1594	0.0042	0.4073
26	9.06	-0.07	-0.0301	0.0015	-0.0147	-0.0515	0.4894	0.4100	0.0019	0.1682	0.0048	0.4103
27	9.46	-0.08	-0.0319	0.0015	-0.0145	-0.0486	0.4555	0.4444	0.0025	0.1757	0.0056	0.3953
28	9.88	-0.07	-0.0190	0.0013	-0.0160	-0.0710	0.8437	0.4704	0.0035	0.1854	0.0074	0.3942
29	10.28	-0.07	-0.0190	0.0013	-0.0160	-0.0710	0.8437	0.4810	0.0038	0.1912	0.0080	0.3974
30	10.68	-0.08	-0.0117	0.0012	-0.0165	-0.1008	1.4443	0.5068	0.0048	0.1988	0.0096	0.3922
31	11.09	-0.08	-0.0227	0.0014	-0.0157	-0.0617	0.6900	0.5348	0.0054	0.2045	0.0102	0.3824
32	11.46	-0.07	-0.0301	0.0015	-0.0148	-0.0515	0.4927	0.5536	0.0064	0.2126	0.0116	0.3840
33	11.83	-0.06	-0.0026	0.0011	-0.0179	-0.4422	6.8717	0.5742	0.0076	0.2199	0.0132	0.3830
34	12.20	-0.07	0.0067	0.0009	-0.0190	0.1418	-2.8310	0.5958	0.0086	0.2231	0.0144	0.3745
35	12.54	-0.06	0.0104	0.0008	-0.0193	0.0817	-1.8591	0.6167	0.0100	0.2309	0.0163	0.3744
36	12.87	-0.07	0.0048	0.0010	-0.0187	0.2187	-3.8960	0.6364	0.0107	0.2371	0.0169	0.3726
37	13.22	-0.05	0.0067	0.0009	-0.0190	0.1418	-2.8310	0.6617	0.0117	0.2437	0.0178	0.3683
38	13.60	-0.06	0.0177	0.0008	-0.0202	0.0452	-1.1414	0.6858	0.0132	0.2510	0.0192	0.3660
39	13.97	-0.06	0.0067	0.0009	-0.0190	0.1418	-2.8310	0.7055	0.0139	0.2556	0.0197	0.3623
40	14.30	-0.06	0.0306	0.0006	-0.0216	0.0196	-0.7060	0.7264	0.0147	0.2624	0.0203	0.3613
41	14.65	-0.06	0.0435	0.0003	-0.0231	0.0080	-0.5312	0.7477	0.0158	0.2675	0.0211	0.3578
42	15.01	-0.07	0.0067	0.0005	-0.0190	0.1418	-2.8310	0.7634	0.0166	0.2700	0.0217	0.3536
43	15.36	-0.07	0.0435	0.0003	-0.0231	0.0080	-0.5312	0.7818	0.0179	0.2766	0.0230	0.3538
44	15.70	-0.07	0.0305	0.0006	-0.0215	0.0197	-0.7061	0.8028	0.0187	0.2803	0.0233	0.3492
45	16.03	-0.06	-0.0835	0.0006	-0.0094	-0.0078	-0.1123	0.8183	0.0192	0.2849	0.0235	0.3481
46	16.37	-0.06	0.0433	0.0003	-0.0230	0.0081	-0.5105	0.8359	0.0199	0.2878	0.0239	0.3443

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RAIO-6		PHI		CONF		L		DEL1		DEL2		DEL3		DEL4		TRANSITION			
6			43		0.85		1.7		0.0		82M3F12		16.750		0		0		0		0		FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CHI	XC PF1	YC PF1	CNF2	CH2	LB2	XC PF2	YC PF2												
47	16.70	-0.07	0.0433	0.0003	-0.0230	0.0081	-0.5305	0.8585	0.0221	0.2936	0.0257	0.3419												
48	17.02	-0.08	0.0434	0.0003	-0.0230	0.0081	-0.5308	0.8799	0.0235	0.2977	0.0267	0.3383												
49	17.33	-0.08	-0.0466	-0.0000	0.0054	0.0011	-0.1153	0.8874	0.0233	0.2988	0.0263	0.3367												
50	17.67	-0.09	-0.0263	-0.0004	0.0033	0.0141	-0.1155	0.9045	0.0254	0.3060	0.0281	0.3383												
51	17.99	-0.08	0.0799	-0.0003	-0.0271	-0.0038	-0.3389	0.9247	0.0267	0.3072	0.0289	0.3322												
52	18.30	-0.08	-0.0229	-0.0004	0.0027	0.0175	-0.1166	0.9342	0.0283	0.3103	0.0303	0.3321												
53	18.63	-0.07	-0.0119	-0.0006	0.0014	0.0504	-0.1206	0.9566	0.0306	0.3140	0.0320	0.3282												
54	18.96	-0.08	-0.0101	-0.0006	0.0012	0.0643	-0.1222	0.9769	0.0311	0.3169	0.0318	0.3237												
55	19.29	-0.09	-0.0173	-0.0005	0.0020	0.0318	-0.1177	1.0018	0.0316	0.3222	0.0315	0.3216												
56	19.61	-0.08	-0.0464	-0.0002	0.0053	0.0043	-0.1151	1.0198	0.0314	0.3271	0.0308	0.3208												
57	19.95	-0.09	-0.0465	-0.0001	0.0053	0.0032	-0.1141	1.0443	0.0314	0.3337	0.0301	0.3195												
58	20.27	-0.08	-0.0465	-0.0001	0.0053	0.0032	-0.1141	1.0606	0.0318	0.3379	0.0300	0.3186												
59	20.61	-0.08	-0.0355	-0.0003	0.0041	0.0084	-0.1147	1.0688	0.0325	0.3427	0.0304	0.3207												
60	20.93	-0.10	-0.0101	-0.0006	0.0012	0.0643	-0.1222	1.0888	0.0336	0.3454	0.0308	0.3172												
61	21.27	-0.09	-0.0046	-0.0007	0.0007	0.1630	-0.1450	1.0995	0.0339	0.3483	0.0308	0.3168												
62	21.58	-0.10	0.1163	-0.0009	-0.0310	-0.0082	-0.2670	1.1120	0.0351	0.3485	0.0316	0.3134												
63	21.88	-0.09	0.0002	-0.0010	-0.0008	-0.1219	-0.0936	1.1257	0.0358	0.3534	0.0318	0.3139												
64	22.19	-0.10	0.0154	-0.0010	-0.0017	-0.0649	-0.1083	1.1395	0.0370	0.3562	0.0325	0.3126												
65	22.49	-0.09	0.0246	-0.0012	-0.0027	-0.0508	-0.1099	1.1560	0.0374	0.3593	0.0324	0.3108												
66	22.81	-0.10	0.0154	-0.0010	-0.0017	-0.0649	-0.1083	1.1689	0.0383	0.3633	0.0328	0.3108												
67	23.12	-0.10	0.0135	-0.0009	-0.0014	-0.0667	-0.1038	1.1882	0.0383	0.3653	0.0322	0.3075												
68	23.43	-0.10	0.0354	-0.0012	-0.0039	-0.0353	-0.1103	1.1862	0.0380	0.3668	0.0320	0.3092												
69	23.73	-0.10	0.0736	-0.0019	-0.0082	-0.0258	-0.1111	1.1492	0.0428	0.3506	0.0372	0.3051												
70	24.08	-0.09	0.0718	-0.0018	-0.0080	-0.0251	-0.1111	1.1679	0.0427	0.3542	0.0365	0.3033												
71	24.37	-0.09	0.0901	-0.0021	-0.0101	-0.0233	-0.1118	1.1644	0.0430	0.3544	0.0370	0.3044												
72	24.68	-0.10	0.0942	-0.0022	-0.0110	-0.0227	-0.1113	1.1792	0.0427	0.3580	0.0362	0.3036												
73	24.97	-0.11	0.1230	-0.0027	-0.0137	-0.0219	-0.1115	1.1844	0.0423	0.3583	0.0357	0.3025												
74	25.27	-0.11	0.1158	-0.0026	-0.0129	-0.0224	-0.1115	1.1980	0.0429	0.3626	0.0358	0.3027												
75	25.56	-0.10	0.1178	-0.0026	-0.0131	-0.0225	-0.1116	1.2137	0.0434	0.3648	0.0358	0.3006												
76	25.87	-0.10	0.1290	-0.0029	-0.0144	-0.0229	-0.1117	1.2217	0.0442	0.3674	0.0362	0.3007												
77	26.16	-0.10	0.1253	-0.0028	-0.0140	-0.0227	-0.1121	1.2319	0.0455	0.3676	0.0370	0.2964												
78	26.46	-0.11	0.1162	-0.0028	-0.0129	-0.0241	-0.1108	1.2421	0.0440	0.3695	0.0355	0.2975												
79	26.76	-0.12	0.1547	-0.0035	-0.0172	-0.0226	-0.1115	1.2504	0.0458	0.3699	0.0367	0.2958												
80	27.06	-0.12	0.0817	-0.0025	-0.0090	-0.0306	-0.1099	1.2482	0.0439	0.3736	0.0352	0.2993												
81	27.38	-0.12	0.0892	-0.0027	-0.0099	-0.0303	-0.1107	1.2634	0.0465	0.3736	0.0368	0.2957												
82	27.67	-0.11	0.0746	-0.0025	-0.0082	-0.0335	-0.1105	1.2671	0.0470	0.3720	0.0371	0.2936												
83	27.96	-0.11	0.0618	-0.0022	-0.0068	-0.0364	-0.1102	1.2787	0.0480	0.3736	0.0376	0.2922												
84	28.26	-0.12	0.0144	-0.0017	-0.0014	-0.1215	-0.0973	1.2784	0.0478	0.3754	0.0374	0.2936												
85	28.58	-0.10	0.0730	-0.0026	-0.0081	-0.0356	-0.1106	1.2754	0.0473	0.3687	0.0371	0.2891												
86	28.89	-0.12	0.0511	-0.0023	-0.0056	-0.0460	-0.1091	1.2751	0.0452	0.3626	0.0355	0.2844												
87	29.19	-0.11	0.0015	-0.0014	-0.0000	-0.9665	-0.0001	1.2706	0.0460	0.3624	0.0362	0.2852												
88	29.52	-0.10	-0.0057	-0.0014	0.0008	0.2543	-0.1405	1.2709	0.0443	0.3620	0.0349	0.2848												

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	43	0.85	1.7	0.0	B2WJF12	16.750	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.75	-0.01	0.1268	-0.0002	-0.0234	-0.0020	-0.1849	-0.1330	0.0039	-0.0323	-0.0297	0.2430
2	-2.49	-0.02	0.1404	-0.0002	-0.0250	-0.0018	-0.1782	-0.1266	0.0037	-0.0300	-0.0296	0.2368
3	-1.93	-0.04	0.1449	-0.0002	-0.0255	-0.0017	-0.1761	-0.0893	0.0029	-0.0203	-0.0325	0.2268
4	-1.33	-0.02	0.1404	-0.0002	-0.0250	-0.0018	-0.1782	-0.0701	0.0020	-0.0096	-0.0292	0.1364
5	-0.79	-0.03	0.1449	-0.0002	-0.0255	-0.0017	-0.1761	-0.0402	0.0010	-0.0035	-0.0261	0.0869
6	-0.24	-0.02	0.1404	-0.0006	-0.0242	-0.0040	-0.1634	-0.0237	-0.0001	0.0064	0.0042	-0.2702
7	0.28	-0.03	0.1479	-0.0007	-0.0233	-0.0051	-0.1577	-0.0066	-0.0010	0.0128	0.1591	-1.9395
8	0.82	-0.02	0.1421	-0.0007	-0.0202	-0.0053	-0.1425	0.0236	-0.0021	0.0202	-0.0890	0.8544
9	1.31	-0.02	0.1555	-0.0009	-0.0218	-0.0061	-0.1401	0.0456	-0.0032	0.0296	-0.0713	0.6490
10	1.84	-0.02	0.1550	-0.0011	-0.0208	-0.0071	-0.1345	0.0714	-0.0038	0.0390	-0.0539	0.5461
11	2.32	-0.03	0.1488	-0.0011	-0.0165	-0.0074	-0.1137	0.0974	-0.0045	0.0487	-0.0462	0.5006
12	2.81	-0.03	0.1532	-0.0011	-0.0173	-0.0072	-0.1133	0.1213	-0.0048	0.0572	-0.0400	0.4717
13	3.28	-0.03	0.1403	-0.0007	-0.0167	-0.0053	-0.1194	0.1460	-0.0049	0.0691	-0.0339	0.4736
14	3.74	-0.04	0.1625	-0.0007	-0.0184	-0.0043	-0.1136	0.1806	-0.0048	0.0789	-0.0269	0.4368
15	4.18	-0.04	0.1625	-0.0007	-0.0184	-0.0043	-0.1136	0.1976	-0.0041	0.0883	-0.0207	0.4471
16	4.65	-0.04	0.1627	-0.0006	-0.0185	-0.0037	-0.1136	0.2263	-0.0033	0.0981	-0.0146	0.4335
17	5.10	-0.06	0.1577	-0.0006	-0.0170	-0.0038	-0.1081	0.2416	-0.0025	0.1079	-0.0106	0.4466
18	5.55	-0.04	0.1713	-0.0007	-0.0186	-0.0041	-0.1087	0.2725	-0.0021	0.1154	-0.0077	0.4235
19	6.01	-0.04	0.1741	-0.0001	-0.0156	-0.0009	-0.0895	0.2942	-0.0013	0.1250	-0.0046	0.4250
20	6.45	-0.05	0.1746	-0.0002	-0.0165	-0.0011	-0.0946	0.3196	-0.0006	0.1336	-0.0020	0.4180
21	6.92	-0.06	0.1699	-0.0007	-0.0160	-0.0041	-0.0941	0.3396	-0.0008	0.1435	-0.0024	0.4224
22	7.36	-0.06	0.1701	-0.0002	-0.0160	-0.0012	-0.0942	0.3706	-0.0004	0.1527	-0.0011	0.4054
23	7.80	-0.06	0.1697	-0.0000	-0.0152	-0.0003	-0.0893	0.3970	0.0	0.1644	0.0	0.4141
24	8.22	-0.07	0.1696	-0.0002	-0.0151	-0.0012	-0.0890	0.4173	0.0	0.1698	0.0	0.4068
25	8.67	-0.08	0.1741	-0.0001	-0.0156	-0.0009	-0.0895	0.4411	0.0005	0.1785	0.0011	0.4046
26	9.06	-0.07	0.1745	-0.0002	-0.0117	-0.0014	-0.0662	0.4741	0.0012	0.1885	0.0026	0.3975
27	9.46	-0.08	0.1821	0.0006	-0.0140	0.0033	-0.0770	0.4909	0.0020	0.1978	0.0041	0.4029
28	9.88	-0.07	0.1746	0.0002	-0.0157	0.0011	-0.0900	0.5250	0.0029	0.2049	0.0055	0.3903
29	10.28	-0.07	0.1769	0.0006	-0.0118	0.0034	-0.0664	0.5449	0.0036	0.2141	0.0066	0.3928
30	10.68	-0.08	0.1687	0.0006	-0.0125	0.0036	-0.0740	0.5619	0.0043	0.2221	0.0077	0.3953
31	11.09	-0.08	0.1806	0.0007	-0.0105	0.0042	-0.0583	0.5820	0.0053	0.2286	0.0091	0.3932
32	11.46	-0.07	0.1824	0.0007	-0.0141	0.0038	-0.0774	0.6043	0.0060	0.2347	0.0099	0.3803
33	11.83	-0.06	0.1826	0.0012	-0.0142	0.0066	-0.0775	0.6323	0.0068	0.2433	0.0108	0.3848
34	12.20	-0.07	0.1771	0.0011	-0.0118	0.0062	-0.0666	0.6523	0.0076	0.2516	0.0117	0.3858
35	12.54	-0.06	0.1858	0.0011	-0.0120	0.0059	-0.0645	0.6868	0.0093	0.2653	0.0135	0.3864
36	12.87	-0.07	0.1772	0.0007	-0.0115	0.0042	-0.0669	0.7007	0.0096	0.2688	0.0138	0.3836
37	13.22	-0.05	0.1826	0.0012	-0.0133	0.0068	-0.0726	0.7293	0.0107	0.2775	0.0147	0.3805
38	13.60	-0.06	0.1914	0.0017	-0.0134	0.0091	-0.0701	0.7434	0.0114	0.2832	0.0154	0.3810
39	13.97	-0.06	0.1982	0.0018	-0.0101	0.0091	-0.0507	0.7682	0.0123	0.2914	0.0160	0.3793
40	14.30	-0.06	0.1757	0.0012	-0.0083	0.0071	-0.0470	0.7890	0.0127	0.2977	0.0162	0.3773
41	14.65	-0.06	0.1757	0.0012	-0.0083	0.0071	-0.0470	0.8066	0.0142	0.3041	0.0177	0.3771
42	15.01	-0.07	0.1830	0.0018	-0.0058	0.0098	-0.0318	0.8224	0.0151	0.3111	0.0184	0.3783
43	15.36	-0.07	0.1977	0.0015	-0.0100	0.0076	-0.0507	0.8471	0.0165	0.3173	0.0195	0.3745
44	15.70	-0.07	0.1827	0.0017	-0.0058	0.0096	-0.0319	0.8629	0.0179	0.3222	0.0208	0.3734
45	16.03	-0.06	0.1753	0.0018	-0.0083	0.0106	-0.0473	0.8789	0.0190	0.3268	0.0216	0.3718
46	16.37	-0.06	0.1960	0.0019	-0.0073	0.0097	-0.0372	0.8984	0.0197	0.3336	0.0220	0.3713

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 43 0.85 1.7			0.0	B2W3F12	16.750	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.70	-0.07	0.1973	0.0017	-0.0100	0.0089	-0.0505	0.9148	0.0214	0.3361	0.0234	0.3674
48	17.02	-0.08	0.1980	0.0022	-0.0105	0.0114	-0.0552	0.9254	0.0232	0.3418	0.0251	0.3693
49	17.33	-0.08	0.2001	0.0023	-0.0078	0.0115	-0.0391	0.9381	0.0251	0.3459	0.0267	0.3687
50	17.67	-0.09	0.1837	0.0017	-0.0093	0.0095	-0.0506	0.9567	0.0271	0.3498	0.0284	0.3656
51	17.99	-0.08	0.1970	0.0022	-0.0101	0.0114	-0.0510	0.9672	0.0281	0.3539	0.0291	0.3659
52	18.30	-0.08	0.1968	0.0019	-0.0099	0.0097	-0.0504	0.9801	0.0290	0.3553	0.0296	0.3625
53	18.63	-0.07	0.2126	0.0023	-0.0077	0.0108	-0.0360	0.9977	0.0291	0.3593	0.0292	0.3602
54	18.96	-0.08	0.2081	0.0030	-0.0064	0.0147	-0.0306	1.0118	0.0303	0.3638	0.0299	0.3596
55	19.29	-0.09	0.2049	0.0030	-0.0084	0.0149	-0.0411	0.9597	0.0395	0.3534	0.0412	0.3682
56	19.61	-0.08	0.1995	0.0030	-0.0061	0.0153	-0.0307	0.9606	0.0402	0.3512	0.0419	0.3656
57	19.95	-0.09	0.2126	0.0030	-0.0065	0.0143	-0.0323	0.9965	0.0373	0.3551	0.0374	0.3564
58	20.27	-0.08	0.2175	0.0028	-0.0082	0.0129	-0.0378	1.0084	0.0361	0.3605	0.0358	0.3575
59	20.61	-0.08	0.2246	0.0031	-0.0058	0.0138	-0.0256	0.9997	0.0371	0.3666	0.0371	0.3667
60	20.93	-0.10	0.2198	0.0036	-0.0044	0.0164	-0.0198	1.0192	0.0376	0.3704	0.0369	0.3634
61	21.27	-0.09	0.2197	0.0036	-0.0044	0.0164	-0.0200	1.0305	0.0377	0.3734	0.0366	0.3623
62	21.58	-0.10	0.2246	0.0032	-0.0057	0.0142	-0.0252	1.0379	0.0382	0.3757	0.0368	0.3620
63	21.88	-0.09	0.2197	0.0036	-0.0044	0.0164	-0.0200	1.0418	0.0393	0.3771	0.0377	0.3620
64	22.19	-0.10	0.2230	0.0038	-0.0022	0.0173	-0.0098	1.0535	0.0403	0.3782	0.0383	0.3590
65	22.49	-0.09	0.2250	0.0043	-0.0057	0.0191	-0.0255	1.0614	0.0400	0.3810	0.0377	0.3589
66	22.81	-0.10	0.2366	0.0040	-0.0038	0.0169	-0.0159	1.0676	0.0400	0.3820	0.0375	0.3578
67	23.12	-0.10	0.2249	0.0036	-0.0058	0.0160	-0.0256	1.0847	0.0403	0.3863	0.0371	0.3562
68	23.43	-0.10	0.2367	0.0038	-0.0037	0.0163	-0.0158	1.1010	0.0408	0.3886	0.0371	0.3529
69	23.73	-0.10	0.2381	0.0039	-0.0065	0.0166	-0.0271	1.1064	0.0403	0.3897	0.0364	0.3522
70	24.08	-0.09	0.2326	0.0038	-0.0033	0.0165	-0.0142	1.1245	0.0405	0.3968	0.0360	0.3529
71	24.37	-0.09	0.2418	0.0043	-0.0043	0.0180	-0.0179	1.1321	0.0407	0.3973	0.0360	0.3510
72	24.68	-0.10	0.2437	0.0043	-0.0079	0.0178	-0.0324	1.1429	0.0404	0.4018	0.0353	0.3516
73	24.97	-0.11	0.2523	0.0043	-0.0080	0.0172	-0.0318	1.1573	0.0407	0.4001	0.0352	0.3457
74	25.27	-0.11	0.2542	0.0045	-0.0032	0.0179	-0.0126	1.1607	0.0404	0.4047	0.0348	0.3486
75	25.56	-0.10	0.2479	0.0045	-0.0066	0.0181	-0.0266	1.1706	0.0403	0.4079	0.0345	0.3484
76	25.87	-0.10	0.2531	0.0049	-0.0081	0.0194	-0.0319	1.1885	0.0401	0.4081	0.0338	0.3434
77	26.16	-0.10	0.2549	0.0050	-0.0033	0.0198	-0.0128	1.1897	0.0400	0.4108	0.0337	0.3453
78	26.46	-0.11	0.2515	0.0045	-0.0054	0.0179	-0.0215	1.1749	0.0370	0.3961	0.0315	0.3371
79	26.76	-0.12	0.2598	0.0049	-0.0046	0.0189	-0.0178	1.1926	0.0392	0.4101	0.0329	0.3439
80	27.06	-0.12	0.2515	0.0044	-0.0054	0.0175	-0.0215	1.1595	0.0347	0.3867	0.0299	0.3335
81	27.38	-0.12	0.2517	0.0049	-0.0054	0.0195	-0.0216	1.1838	0.0356	0.3946	0.0301	0.3333
82	27.67	-0.11	0.2598	0.0049	-0.0046	0.0189	-0.0178	1.1770	0.0352	0.3916	0.0299	0.3327
83	27.96	-0.11	0.2674	0.0050	-0.0021	0.0189	-0.0078	1.1794	0.0337	0.3906	0.0286	0.3312
84	28.26	-0.12	0.2733	0.0049	-0.0053	0.0181	-0.0195	1.1647	0.0311	0.3796	0.0267	0.3259
85	28.58	-0.10	0.2735	0.0050	-0.0054	0.0185	-0.0196	1.1713	0.0327	0.3868	0.0279	0.3302
86	28.89	-0.12	0.2703	0.0049	-0.0075	0.0181	-0.0279	1.1697	0.0317	0.3858	0.0271	0.3298
87	29.19	-0.11	0.2685	0.0062	-0.0022	0.0231	-0.0083	1.1560	0.0308	0.3769	0.0266	0.3260
88	29.52	-0.10	0.2907	0.0062	-0.0040	0.0213	-0.0138	1.1531	0.0300	0.3734	0.0260	0.3239

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 44 0.92 1.7 0.0 B2W3F12 16.750 0 0 0 0 FIXED									
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	-2.75	-0.03	-0.4978	0.5890	0.0147	0.0434	0.0100	0.1752	-1.1831
2	-2.75	-0.04	-0.5001	0.5372	0.0684	-0.0837	0.0120	0.1754	-1.0741
3	-2.39	-0.04	-0.4448	0.4938	-0.0056	-0.0392	0.0090	0.1764	-1.1100
4	-1.76	-0.04	-0.3225	0.3485	0.0168	0.0925	0.0080	0.1812	-1.0806
5	-1.19	-0.03	-0.2210	0.2374	0.0558	0.0065	0.0120	0.1801	-1.0742
6	-0.61	-0.02	-0.1179	0.1440	0.0468	-0.0255	0.0080	0.1850	-1.2219
7	-0.08	-0.03	-0.0476	0.0856	-0.0143	0.0220	0.0090	0.1903	-1.7992
8	0.47	-0.02	0.0329	0.0419	0.0174	-0.0084	0.0060	0.1899	1.2748
9	0.96	-0.04	0.1021	-0.0409	-0.0065	-0.0119	0.0060	0.1952	-0.4010
10	1.48	-0.04	0.1801	-0.1031	0.0177	-0.0538	0.0110	0.1916	-0.5727
11	1.97	-0.02	0.2978	-0.2294	0.0235	-0.0195	0.0100	0.1917	-0.7721
12	2.48	-0.01	0.3978	-0.3650	0.0422	0.0299	0.0070	0.1920	-0.9175
13	2.94	-0.04	0.4822	-0.4742	0.0736	-0.0460	0.0130	0.1939	-0.9832
14	3.40	-0.04	0.5810	-0.6385	0.0403	0.0336	0.0070	0.1911	-1.0988
15	3.89	-0.05	0.6960	-0.7684	-0.0318	0.0145	0.0110	0.1920	-1.1041
16	4.35	-0.04	0.8068	-0.9285	0.0051	0.0219	0.0110	0.1866	-1.1509
17	4.79	-0.04	0.8992	-1.1149	0.0175	-0.0021	0.0120	0.1876	-1.2339
18	5.23	-0.07	1.0316	-1.2732	-0.0614	-0.0080	0.0140	0.1900	-1.2343
19	5.71	-0.05	1.1412	-1.4608	0.0363	0.0462	0.0110	0.1927	-1.2800
20	6.16	-0.06	1.2520	-1.6439	0.0491	0.0233	0.0150	0.1903	-1.3130
21	6.62	-0.06	1.3371	-1.7590	0.0197	-0.0336	0.0210	0.1970	-1.3155
22	7.05	-0.07	1.5066	-1.9863	0.0253	-0.0754	0.0180	0.1913	-1.3184
23	7.52	-0.08	1.6123	-2.1772	-0.0245	-0.0637	0.0160	0.1845	-1.3504
24	7.95	-0.09	1.6918	-2.3435	-0.0650	-0.0910	0.0170	0.1820	-1.3852
25	8.37	-0.07	1.7933	-2.5756	0.0338	0.0267	0.0180	0.1804	-1.4362
26	8.79	-0.07	1.9363	-2.7829	-0.0065	0.0401	0.0170	0.1754	-1.4372
27	9.18	-0.09	2.0241	-3.0188	0.0078	-0.0399	0.0180	0.1734	-1.4914
28	9.60	-0.09	2.1727	-3.2548	0.0114	-0.0849	0.0160	0.1668	-1.4980
29	10.00	-0.09	2.2957	-3.4719	-0.0272	-0.0179	0.0130	0.1637	-1.5124
30	10.40	-0.10	2.4030	-3.6311	-0.0528	0.0265	0.0160	0.1611	-1.5111
31	10.80	-0.08	2.5125	-3.8284	0.0628	0.0841	0.0130	0.1602	-1.5238
32	11.18	-0.06	2.6217	-4.0223	0.0574	0.0296	0.0110	0.1588	-1.5342
33	11.56	-0.06	2.7398	-4.2047	0.0279	0.0529	0.0120	0.1530	-1.5347
34	11.93	-0.07	2.8766	-4.4512	-0.0365	0.0551	0.0090	0.1508	-1.5474
35	12.29	-0.08	3.0072	-4.6980	-0.1047	0.0136	0.0110	0.1473	-1.5623
36	12.66	-0.07	3.1101	-4.8371	-0.0476	0.0856	0.0090	0.1434	-1.5553
37	13.00	-0.05	3.2267	-5.0363	0.0610	0.0646	0.0050	0.1400	-1.5608
38	13.37	-0.06	3.3204	-5.2434	-0.0366	0.1292	-0.0020	0.1359	-1.5792
39	13.73	-0.05	3.4132	-5.4133	0.0462	0.1123	-0.0040	0.1320	-1.5860
40	14.09	-0.07	3.5052	-5.5852	-0.0460	0.1124	0.0080	0.1276	-1.5934
41	14.45	-0.07	3.6045	-5.7442	-0.0275	0.0605	0.0100	0.1252	-1.5936
42	14.79	-0.07	3.6802	-5.8922	-0.0258	0.0061	0.0130	0.1225	-1.6010
43	15.13	-0.08	3.8325	-6.0784	-0.1251	0.1581	0.0190	0.1180	-1.5860
44	15.49	-0.07	3.9242	-6.2428	-0.0406	0.1638	0.0210	0.1116	-1.5908
45	15.81	-0.06	4.0347	-6.4464	-0.0627	0.1888	0.0180	0.1105	-1.5978
46	16.14	-0.05	4.1427	-6.5346	-0.0109	0.2562	0.0200	0.1121	-1.5774

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	44	0.92	1.7	0.0	82W3F12	14.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.46	-0.07	4.2828	-6.7039	-0.0697	0.1546	0.0160	0.1067	-1.5653		
48	16.82	-0.09	4.3530	-6.8501	-0.1713	0.2528	0.0200	0.1008	-1.5736		
49	17.13	-0.09	4.4425	-7.0174	-0.1859	0.1802	0.0100	0.0959	-1.5796		
50	17.46	-0.08	4.5321	-7.1388	-0.1581	0.2743	0.0060	0.0885	-1.5752		
51	17.77	-0.09	4.6494	-7.3170	-0.1767	0.3063	0.0070	0.0889	-1.5748		
52	18.11	-0.09	4.7332	-7.4893	-0.1601	0.2301	-0.0080	0.0802	-1.5823		
53	18.44	-0.07	4.8266	-7.5891	-0.1359	0.4922	-0.0180	0.0793	-1.5724		
54	18.77	-0.09	4.9135	-7.7767	-0.2136	0.3900	-0.0210	0.0751	-1.5827		
55	19.07	-0.10	5.0002	-7.9072	-0.2899	0.3938	-0.0200	0.0748	-1.5814		
56	19.41	-0.08	5.1365	-8.0450	-0.1634	0.3497	-0.0300	0.0751	-1.5662		
57	19.75	-0.09	5.1960	-8.1403	-0.1429	0.4000	-0.0380	0.0701	-1.5666		
58	20.06	-0.11	5.2466	-8.1112	-0.1832	0.2085	-0.0540	0.0726	-1.5460		
59	20.40	-0.11	5.3596	-8.2603	-0.1442	0.1259	-0.0450	0.0629	-1.5412		
60	20.74	-0.09	5.4386	-8.3779	-0.0624	0.2693	-0.0580	0.0634	-1.5405		
61	21.08	-0.10	5.5441	-8.4456	-0.0901	0.1421	-0.0530	0.0603	-1.5234		
62	21.39	-0.09	5.5964	-8.5238	-0.0826	0.1586	-0.0600	0.0568	-1.5231		
63	21.73	-0.09	5.7004	-8.6554	-0.0379	0.0760	-0.0610	0.0512	-1.5184		
64	22.03	-0.10	5.8018	-8.7875	-0.1066	0.1422	-0.0550	0.0550	-1.5146		
65	22.31	-0.10	5.8745	-8.7853	-0.1172	0.1621	-0.0710	0.0469	-1.4955		
66	22.63	-0.09	5.9571	-8.8839	-0.0614	0.2194	-0.0760	0.0396	-1.4913		
67	22.94	-0.10	6.0687	-8.9421	-0.0462	0.0317	-0.0810	0.0390	-1.4817		
68	23.27	-0.11	6.1454	-9.0495	-0.1204	0.0666	-0.0860	0.0387	-1.4726		
69	23.58	-0.09	6.2412	-9.0926	0.0138	0.1247	-0.0860	0.0324	-1.4569		
70	23.90	-0.10	6.3337	-9.1121	-0.0712	0.1087	-0.1010	0.0268	-1.4387		
71	24.21	-0.11	6.4251	-9.1891	-0.1324	0.1433	-0.0990	0.0230	-1.4302		
72	24.53	-0.10	6.5423	-9.2883	-0.0430	0.1262	-0.1020	0.0222	-1.4197		
73	24.82	-0.12	6.6367	-9.3174	-0.1245	0.1103	-0.1020	0.0195	-1.4039		
74	25.12	-0.11	6.7030	-9.3372	-0.1896	0.3214	-0.1100	0.0205	-1.3930		
75	25.44	-0.10	6.8182	-9.3805	-0.1203	0.2354	-0.1090	0.0175	-1.3758		
76	25.73	-0.10	6.9299	-9.2569	-0.1512	0.2686	-0.1140	0.0201	-1.3358		
77	26.04	-0.10	7.0026	-9.2777	-0.1081	0.2373	-0.1130	0.0213	-1.3249		
78	26.32	-0.11	7.0880	-9.2302	-0.1171	0.1099	-0.1060	0.0191	-1.3022		
79	26.64	-0.11	7.1689	-9.1505	-0.1239	0.3864	-0.1270	0.0192	-1.2764		
80	26.93	-0.11	7.2321	-9.1280	-0.1106	0.2538	-0.1200	0.0128	-1.2622		
81	27.26	-0.12	7.3539	-9.0587	-0.1489	0.2074	-0.1280	0.0122	-1.2318		
82	27.57	-0.13	7.4608	-9.0513	-0.1710	0.1864	-0.1200	0.0034	-1.2132		
83	27.88	-0.12	7.5550	-8.9532	-0.0527	0.0728	-0.1290	0.0053	-1.1851		
84	28.17	-0.12	7.6155	-8.9499	-0.1773	0.2412	-0.1420	0.0035	-1.1752		
85	28.51	-0.09	7.7400	-8.7892	0.1475	-0.0785	-0.0820	-0.0036	-1.1356		
86	28.82	-0.11	7.8556	-8.7571	-0.0699	0.0739	-0.1150	-0.0034	-1.1148		
87	29.12	-0.14	8.0209	-8.8295	-0.1354	-0.1084	-0.1140	-0.0271	-1.1008		
88	29.47	-0.11	8.1813	-8.3983	0.0340	-0.0226	-0.1350	-0.0284	-1.0265		
89	29.78	-0.07	8.3862	-8.6001	0.0886	0.1848	-0.1360	-0.0412	-1.0255		
90	30.11	-0.19	8.4747	-8.5320	-0.3867	-0.3284	-0.1090	-0.0839	-1.0068		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 44 0.92 1.7 0.0 BZH3F12 16.750 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.75	-0.03	-0.0264	0.0010	-0.0132	-0.0398	0.4999	-0.1408	0.0066	-0.0453	-0.0469	0.3219
2	-2.75	-0.04	-0.0379	0.0012	-0.0118	-0.0330	0.3121	-0.1308	0.0063	-0.0422	-0.0482	0.3225
3	-2.39	-0.04	-0.0492	0.0014	-0.0106	-0.0285	0.2153	-0.1167	0.0055	-0.0369	-0.0475	0.3101
4	-1.76	-0.04	-0.0265	0.0011	-0.0131	-0.0415	0.4955	-0.0934	0.0038	-0.0251	-0.0412	0.2690
5	-1.19	-0.03	-0.0428	0.0013	-0.0113	-0.0315	0.2631	-0.0788	0.0028	-0.0153	-0.0355	0.1936
6	-0.61	-0.02	-0.0346	0.0012	-0.0122	-0.0361	0.3534	-0.0539	0.0013	-0.0040	-0.0250	0.0735
7	-0.08	-0.03	-0.0216	0.0010	-0.0137	-0.0486	0.6341	-0.0446	0.0003	0.0021	-0.0067	-0.0480
8	0.47	-0.02	-0.0216	0.0010	-0.0137	-0.0486	0.6341	-0.0446	0.0003	0.0021	-0.0067	-0.0480
9	0.96	-0.04	-0.0167	0.0009	-0.0143	-0.0569	0.8542	-0.0189	-0.0021	0.0178	0.1137	-0.9419
10	1.48	-0.04	-0.0263	0.0010	-0.0132	-0.0399	0.5005	0.0011	-0.0029	0.0241	-2.6359	21.8787
11	1.97	-0.02	-0.0198	0.0009	-0.0135	-0.0480	0.7019	0.0264	-0.0039	0.0346	-0.1496	1.3105
12	2.48	-0.01	-0.0101	0.0008	-0.0156	-0.0841	1.4817	0.0383	-0.0047	0.0432	-0.1227	1.1269
13	2.94	-0.04	-0.0003	0.0007	-0.0161	-2.3329	53.6665	0.0580	-0.0054	0.0508	-0.0939	0.8763
14	3.40	-0.04	-0.0036	0.0007	-0.0157	-0.2083	4.3610	0.0848	-0.0063	0.0611	-0.0749	0.7212
15	3.89	-0.05	-0.0020	0.0007	-0.0159	-0.3749	7.9332	0.1098	-0.0066	0.0724	-0.0606	0.6593
16	4.35	-0.04	-0.0118	0.0009	-0.0148	-0.0805	1.2569	0.1322	-0.0071	0.0816	-0.0537	0.6176
17	4.79	-0.04	-0.0118	0.0009	-0.0148	-0.0805	1.2569	0.1322	-0.0071	0.0816	-0.0537	0.6176
18	5.23	-0.07	-0.0053	0.0008	-0.0155	-0.1603	2.9181	0.1743	-0.0071	0.1027	-0.0407	0.5888
19	5.71	-0.05	-0.0269	0.0008	-0.0245	0.0316	-0.9121	0.2000	-0.0061	0.1110	-0.0307	0.5552
20	6.16	-0.06	-0.0037	0.0008	-0.0156	-0.2297	4.2251	0.2180	-0.0049	0.1178	-0.0227	0.5406
21	6.62	-0.06	-0.0020	0.0007	-0.0158	-0.3749	7.8832	0.2398	-0.0048	0.1260	-0.0202	0.5255
22	7.05	-0.07	-0.0020	0.0007	-0.0158	-0.3749	7.8832	0.2398	-0.0048	0.1260	-0.0202	0.5255
23	7.52	-0.08	0.0045	0.0007	-0.0165	0.1555	-3.6668	0.2927	-0.0056	0.1466	-0.0193	0.4941
24	7.95	-0.09	-0.0053	0.0008	-0.0154	-0.1603	2.8993	0.3190	-0.0061	0.1563	-0.0193	0.4899
25	8.37	-0.07	0.0061	0.0006	-0.0167	0.1065	-2.7324	0.3400	-0.0065	0.1649	-0.0191	0.4849
26	8.79	-0.07	0.0045	0.0006	-0.0165	0.1444	-3.6668	0.3688	-0.0068	0.1723	-0.0186	0.4671
27	9.18	-0.09	0.0110	0.0005	-0.0172	0.0500	-1.5608	0.3940	-0.0072	0.1828	-0.0183	0.4639
28	9.60	-0.09	0.0062	0.0005	-0.0166	0.0887	-2.6829	0.4191	-0.0075	0.1932	-0.0180	0.4611
29	10.00	-0.09	0.0445	0.0005	-0.0263	0.0124	-0.5904	0.4464	-0.0079	0.2008	-0.0177	0.4499
30	10.40	-0.10	0.0223	0.0003	-0.0185	0.0157	-0.8282	0.4680	-0.0079	0.2064	-0.0169	0.4411
31	10.80	-0.08	0.0271	0.0003	-0.0190	0.0129	-0.7000	0.4873	-0.0079	0.2158	-0.0162	0.4428
32	11.18	-0.06	0.0207	0.0004	-0.0183	0.0193	-0.8842	0.5070	-0.0082	0.2221	-0.0162	0.4381
33	11.56	-0.06	0.0305	0.0002	-0.0194	0.0082	-0.6173	0.5270	-0.0077	0.2283	-0.0147	0.4332
34	11.93	-0.07	0.0289	0.0002	-0.0193	0.0086	-0.6668	0.5526	-0.0078	0.2369	-0.0141	0.4287
35	12.29	-0.08	0.0289	0.0002	-0.0193	0.0086	-0.6668	0.5828	-0.0071	0.2451	-0.0123	0.4205
36	12.66	-0.07	0.0322	0.0001	-0.0197	0.0047	-0.6109	0.5998	-0.0063	0.2508	-0.0105	0.4182
37	13.00	-0.05	0.0387	0.0000	-0.0204	0.0013	-0.5273	0.6199	-0.0053	0.2557	-0.0086	0.4126
38	13.37	-0.06	0.0646	-0.0003	-0.0233	-0.0054	-0.3603	0.6400	-0.0049	0.2615	-0.0077	0.4087
39	13.73	-0.05	0.0711	-0.0004	-0.0240	-0.0063	-0.3377	0.6602	-0.0041	0.2664	-0.0062	0.4035
40	14.09	-0.07	0.0532	-0.0001	-0.0220	-0.0019	-0.4130	0.6785	-0.0033	0.2733	-0.0049	0.4028
41	14.45	-0.07	0.0483	-0.0001	-0.0214	-0.0021	-0.4432	0.7018	-0.0028	0.2771	-0.0041	0.3949
42	14.79	-0.07	0.0804	-0.0000	-0.0304	-0.0006	-0.3782	0.7148	-0.0023	0.2814	-0.0033	0.3936
43	15.13	-0.08	0.0549	-0.0002	-0.0222	-0.0036	-0.4045	0.7278	-0.0013	0.2870	-0.0018	0.3943
44	15.49	-0.07	0.0772	0.0	-0.0301	0.0	-0.3896	0.7477	-0.0005	0.2898	-0.0007	0.3876
45	15.81	-0.06	0.0967	-0.0003	-0.0323	-0.0031	-0.3338	0.7631	0.0003	0.2961	0.0004	0.3880
46	16.14	-0.05	0.0388	0.0	-0.0204	0.0	-0.5250	0.7777	0.0008	0.2980	0.0011	0.3832

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION	
6			44	0.92	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	16.46	-0.07	0.0871	-0.0001	-0.0312	-0.0011	-0.3579	0.8012	0.0016	0.3036	0.0020	0.3790	
48	16.82	-0.09	0.0534	-0.0001	-0.0221	-0.0019	-0.4140	0.8169	0.0031	0.3084	0.0038	0.3775	
49	17.13	-0.09	0.1132	-0.0006	-0.0342	-0.0053	-0.3019	0.8326	0.0047	0.3124	0.0056	0.3752	
50	17.46	-0.08	0.0859	-0.0006	-0.0257	-0.0076	-0.2989	0.8470	0.0070	0.3152	0.0083	0.3722	
51	17.77	-0.09	0.0763	-0.0005	-0.0247	-0.0066	-0.3234	0.8687	0.0081	0.3204	0.0094	0.3688	
52	18.11	-0.09	0.0911	-0.0008	-0.0263	-0.0088	-0.2892	0.8844	0.0091	0.3236	0.0103	0.3659	
53	18.44	-0.07	0.1463	-0.0012	-0.0374	-0.0082	-0.2594	0.8951	0.0095	0.3274	0.0106	0.3657	
54	18.77	-0.09	0.1303	-0.0014	-0.0308	-0.0111	-0.2362	0.9143	0.0112	0.3301	0.0123	0.3610	
55	19.07	-0.10	0.1469	-0.0018	-0.0326	-0.0123	-0.2223	0.9271	0.0121	0.3344	0.0130	0.3607	
56	19.41	-0.08	0.1632	-0.0020	-0.0344	-0.0126	-0.2109	0.9493	0.0127	0.3385	0.0134	0.3566	
57	19.75	-0.09	0.1633	-0.0021	-0.0345	-0.0129	-0.2112	0.9658	0.0133	0.3403	0.0138	0.3524	
58	20.06	-0.11	0.1519	-0.0020	-0.0331	-0.0132	-0.2178	0.9801	0.0125	0.3466	0.0128	0.3536	
59	20.40	-0.11	0.1842	-0.0020	-0.0422	-0.0169	-0.2292	1.0008	0.0128	0.3508	0.0128	0.3505	
60	20.74	-0.09	0.1635	-0.0023	-0.0344	-0.0144	-0.2105	1.0153	0.0129	0.3554	0.0128	0.3501	
61	21.08	-0.10	0.1747	-0.0019	-0.0411	-0.0112	-0.2352	1.0343	0.0132	0.3582	0.0128	0.3464	
62	21.39	-0.09	0.1955	-0.0019	-0.0435	-0.0097	-0.2228	1.0429	0.0136	0.3612	0.0130	0.3463	
63	21.73	-0.09	0.1743	-0.0013	-0.0412	-0.0077	-0.2365	1.0505	0.0144	0.3654	0.0136	0.3452	
64	22.03	-0.10	0.1743	-0.0014	-0.0411	-0.0080	-0.2359	1.0719	0.0144	0.3680	0.0135	0.3433	
65	22.31	-0.10	0.1796	-0.0021	-0.0363	-0.0117	-0.2024	1.0779	0.0148	0.3690	0.0137	0.3423	
66	22.63	-0.09	0.2024	-0.0021	-0.0443	-0.0104	-0.2192	1.0955	0.0161	0.3728	0.0147	0.3403	
67	22.94	-0.10	0.2073	-0.0020	-0.0449	-0.0099	-0.2167	1.1099	0.0166	0.3755	0.0150	0.3383	
68	23.27	-0.11	0.2105	-0.0020	-0.0452	-0.0097	-0.2150	1.1215	0.0165	0.3797	0.0148	0.3386	
69	23.58	-0.09	0.1700	-0.0019	-0.0352	-0.0115	-0.2074	1.1291	0.0174	0.3797	0.0154	0.3363	
70	23.90	-0.10	0.2415	-0.0024	-0.0487	-0.0101	-0.2018	1.1424	0.0182	0.3827	0.0160	0.3350	
71	24.21	-0.11	0.1962	-0.0023	-0.0382	-0.0120	-0.1948	1.1498	0.0185	0.3845	0.0161	0.3344	
72	24.53	-0.10	0.2267	-0.0024	-0.0473	-0.0107	-0.2068	1.1667	0.0192	0.3877	0.0165	0.3323	
73	24.82	-0.12	0.2125	-0.0025	-0.0401	-0.0118	-0.1887	1.1726	0.0196	0.3889	0.0167	0.3317	
74	25.12	-0.11	0.2031	-0.0024	-0.0390	-0.0121	-0.1921	1.1742	0.0184	0.3910	0.0157	0.3330	
75	25.44	-0.10	0.2080	-0.0025	-0.0396	-0.0120	-0.1903	1.1839	0.0218	0.3868	0.0184	0.3267	
76	25.73	-0.10	0.2196	-0.0028	-0.0409	-0.0127	-0.1864	1.1924	0.0212	0.3912	0.0178	0.3281	
77	26.04	-0.10	0.2522	-0.0031	-0.0446	-0.0125	-0.1767	1.1781	0.0216	0.3804	0.0235	0.3229	
78	26.32	-0.11	0.2128	-0.0024	-0.0402	-0.0115	-0.1889	1.1870	0.0283	0.3816	0.0238	0.3215	
79	26.64	-0.11	0.1624	-0.0019	-0.0345	-0.0120	-0.2124	1.2022	0.0238	0.3935	0.0198	0.3273	
80	26.93	-0.11	0.2443	-0.0031	-0.0437	-0.0127	-0.1789	1.1882	0.0295	0.3811	0.0248	0.3208	
81	27.26	-0.12	0.2264	-0.0029	-0.0417	-0.0130	-0.1840	1.2005	0.0301	0.3814	0.0251	0.3177	
82	27.57	-0.13	0.2017	-0.0023	-0.0389	-0.0116	-0.1926	1.2039	0.0300	0.3835	0.0249	0.3185	
83	27.88	-0.12	0.2442	-0.0029	-0.0437	-0.0119	-0.1791	1.2051	0.0316	0.3760	0.0262	0.3120	
84	28.17	-0.12	0.1473	-0.0010	-0.0382	-0.0068	-0.2595	1.2341	0.0292	0.3916	0.0237	0.3173	
85	28.51	-0.09	0.3428	-0.0037	-0.0602	-0.0109	-0.1757	1.1553	0.0277	0.3545	0.0240	0.3068	
86	28.82	-0.11	0.2746	-0.0032	-0.0472	-0.0116	-0.1717	1.1963	0.0302	0.3716	0.0253	0.3106	
87	29.12	-0.14	0.2602	-0.0027	-0.0455	-0.0106	-0.1749	1.1856	0.0295	0.3650	0.0249	0.3078	
88	29.47	-0.11	0.3147	-0.0027	-0.0517	-0.0087	-0.1642	1.2231	0.0292	0.3744	0.0239	0.3061	
89	29.78	-0.07	0.1783	-0.0015	-0.0362	-0.0084	-0.2030	1.2189	0.0280	0.3732	0.0230	0.3061	
90	30.11	-0.19	0.2101	-0.0014	-0.0452	-0.0069	-0.2151	1.2069	0.0273	0.3725	0.0226	0.3086	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RL10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	44	0.92	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.75	-0.03	0.0759	-0.0017	-0.0085	-0.0224	-0.1121	-0.1591	0.0057	-0.0347	-0.0361	0.2182
2	-2.75	-0.04	0.0684	-0.0014	-0.0085	-0.0205	-0.1244	-0.1606	0.0058	-0.0351	-0.0364	0.2186
3	-2.39	-0.04	0.0684	-0.0014	-0.0085	-0.0205	-0.1244	-0.1443	0.0050	-0.0295	-0.0350	0.2043
4	-1.76	-0.04	0.0638	-0.0018	-0.0072	-0.0282	-0.1135	-0.1137	0.0038	-0.0175	-0.0334	0.1538
5	-1.19	-0.03	0.0683	-0.0017	-0.0084	-0.0249	-0.1236	-0.0899	0.0027	-0.0103	-0.0300	0.1141
6	-0.61	-0.02	0.0874	-0.0022	-0.0091	-0.0257	-0.1039	-0.0611	0.0009	0.0008	-0.0147	-0.0138
7	-0.08	-0.03	0.0874	-0.0023	-0.0091	-0.0269	-0.1039	-0.0366	-0.0006	0.0076	0.0178	-0.2078
8	0.47	-0.02	0.0860	-0.0028	-0.0067	-0.0326	-0.0784	-0.0190	-0.0021	0.0135	0.1105	-0.7089
9	0.96	-0.04	0.0964	-0.0028	-0.0045	-0.0296	-0.0506	-0.0082	-0.0035	0.0247	-0.4328	3.0161
10	1.48	-0.04	0.0841	-0.0032	-0.0036	-0.0380	-0.0425	0.0230	-0.0042	0.0305	-0.1826	1.3245
11	1.97	-0.02	0.0842	-0.0028	-0.0035	-0.0338	-0.0421	0.0525	-0.0053	0.0418	-0.1009	0.7961
12	2.48	-0.01	0.0842	-0.0028	-0.0035	-0.0338	-0.0421	0.0797	-0.0065	0.0487	-0.0822	0.6118
13	2.94	-0.04	0.0963	-0.0027	-0.0049	-0.0286	-0.0510	0.1124	-0.0079	0.0599	-0.0703	0.5334
14	3.40	-0.04	0.0963	-0.0027	-0.0045	-0.0286	-0.0510	0.1300	-0.0087	0.0684	-0.0669	0.5263
15	3.89	-0.05	0.0817	-0.0028	-0.0012	-0.0349	-0.0150	0.1634	-0.0090	0.0822	-0.0551	0.5033
16	4.35	-0.04	0.1043	-0.0028	0.0016	-0.0268	0.0149	0.1899	-0.0092	0.0925	-0.0484	0.4870
17	4.79	-0.04	0.0922	-0.0028	0.0025	-0.0304	0.0317	0.2179	-0.0095	0.1029	-0.0438	0.4723
18	5.23	-0.07	0.0979	-0.0024	-0.0007	-0.0245	-0.0369	0.2415	-0.0089	0.1117	-0.0371	0.4624
19	5.71	-0.05	0.1055	-0.0023	-0.0008	-0.0223	-0.0060	0.2668	-0.0085	0.1222	-0.0320	0.4580
20	6.16	-0.06	0.0920	-0.0028	0.0030	-0.0304	0.0321	0.2910	-0.0082	0.1301	-0.0283	0.4469
21	6.62	-0.06	0.0998	-0.0028	0.0021	-0.0281	0.0206	0.3152	-0.0086	0.1396	-0.0273	0.4430
22	7.05	-0.07	0.0951	-0.0023	0.0040	-0.0247	0.0419	0.3437	-0.0085	0.1491	-0.0249	0.4339
23	7.52	-0.08	0.0933	-0.0023	0.0071	-0.0252	0.0760	0.3696	-0.0091	0.1592	-0.0247	0.4306
24	7.95	-0.09	0.1025	-0.0023	0.0039	-0.0229	0.0376	0.3984	-0.0100	0.1668	-0.0251	0.4185
25	8.37	-0.07	0.0947	-0.0027	0.0041	-0.0285	0.0428	0.4187	-0.0101	0.1759	-0.0242	0.4201
26	8.79	-0.07	0.0931	-0.0027	0.0071	-0.0295	0.0765	0.4491	-0.0104	0.1850	-0.0231	0.4120
27	9.18	-0.09	0.1047	-0.0026	0.0066	-0.0253	0.0629	0.4798	-0.0101	0.1966	-0.0211	0.4057
28	9.60	-0.09	0.1110	-0.0023	0.0080	-0.0206	0.0716	0.5085	-0.0103	0.2066	-0.0203	0.4064
29	10.00	-0.09	0.1007	-0.0016	0.0078	-0.0164	0.0770	0.5266	-0.0098	0.2127	-0.0186	0.4038
30	10.40	-0.10	0.0916	-0.0023	0.0103	-0.0251	0.1127	0.5470	-0.0099	0.2202	-0.0182	0.4025
31	10.80	-0.08	0.1116	-0.0023	0.0080	-0.0206	0.0716	0.5730	-0.0092	0.2288	-0.0161	0.3993
32	11.18	-0.06	0.1071	-0.0022	0.0101	-0.0205	0.0942	0.5933	-0.0093	0.2363	-0.0158	0.3983
33	11.56	-0.06	0.1120	-0.0019	0.0080	-0.0174	0.0716	0.6159	-0.0090	0.2430	-0.0146	0.3946
34	11.93	-0.07	0.1107	-0.0022	0.0104	-0.0199	0.0938	0.6387	-0.0090	0.2513	-0.0141	0.3935
35	12.29	-0.08	0.1097	-0.0015	0.0127	-0.0137	0.1153	0.6705	-0.0084	0.2604	-0.0125	0.3884
36	12.66	-0.07	0.1073	-0.0016	0.0100	-0.0154	0.0928	0.6835	-0.0083	0.2665	-0.0121	0.3900
37	13.00	-0.05	0.1093	-0.0016	0.0134	-0.0146	0.1228	0.7081	-0.0076	0.2749	-0.0108	0.3883
38	13.37	-0.06	0.1092	-0.0018	0.0135	-0.0169	0.1235	0.7296	-0.0069	0.2834	-0.0095	0.3884
39	13.73	-0.05	0.1138	-0.0015	0.0122	-0.0132	0.1074	0.7541	-0.0059	0.2899	-0.0079	0.3844
40	14.09	-0.07	0.1215	-0.0011	0.0121	-0.0095	0.0995	0.7699	-0.0048	0.2951	-0.0063	0.3833
41	14.45	-0.07	0.1135	-0.0015	0.0122	-0.0132	0.1077	0.7844	-0.0040	0.2997	-0.0051	0.3822
42	14.79	-0.07	0.1034	-0.0011	0.0179	-0.0111	0.1727	0.8020	-0.0030	0.3063	-0.0037	0.3820
43	15.13	-0.08	0.1142	-0.0005	0.0122	-0.0044	0.1064	0.8267	-0.0021	0.3144	-0.0025	0.3803
44	15.49	-0.07	0.1095	-0.0015	0.0135	-0.0137	0.1232	0.8413	-0.0007	0.3204	-0.0009	0.3809
45	15.81	-0.06	0.1217	-0.0011	0.0121	-0.0094	0.0990	0.8633	0.0001	0.3264	0.0001	0.3780
46	16.14	-0.05	0.1158	-0.0011	0.0165	-0.0099	0.1424	0.8745	0.0012	0.3330	0.0014	0.3808

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

 PAGE 3 OF 3
 SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	44	0.92 1.1	0.0	BZMF12	16.750	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.46	-0.07	0.1088	-0.0008	0.0158	-0.0078	0.1448	0.8866	0.0023	0.3370	0.0026	0.3801
48	16.82	-0.09	0.1129	-0.0005	0.0153	-0.0044	0.1357	0.9037	0.0043	0.3427	0.0048	0.3792
49	17.13	-0.09	0.1128	-0.0009	0.0153	-0.0084	0.1355	0.9205	0.0052	0.3452	0.0056	0.3750
50	17.46	-0.08	0.1102	-0.0004	0.0134	-0.0036	0.1218	0.9276	0.0074	0.3496	0.0080	0.3769
51	17.77	-0.09	0.1131	-0.0004	0.0154	-0.0035	0.1360	0.9473	0.0088	0.3551	0.0093	0.3748
52	18.11	-0.09	0.1044	-0.0004	0.0179	-0.0038	0.1713	0.9598	0.0103	0.3588	0.0108	0.3738
53	18.44	-0.07	0.1220	-0.0009	0.0125	-0.0078	0.1062	0.9762	0.0108	0.3627	0.0111	0.3715
54	18.77	-0.09	0.1224	-0.0009	0.0122	-0.0078	0.0996	0.9897	0.0119	0.3661	0.0120	0.3699
55	19.07	-0.10	0.1169	-0.0000	0.0164	-0.0004	0.1407	1.0084	0.0122	0.3706	0.0121	0.3675
56	19.41	-0.08	0.1273	-0.0003	0.0182	-0.0027	0.1431	1.0225	0.0126	0.3752	0.0124	0.3669
57	19.75	-0.09	0.1243	-0.0008	0.0164	-0.0064	0.1321	1.0243	0.0144	0.3742	0.0141	0.3653
58	20.06	-0.11	0.1355	0.0	0.0173	0.0	0.1280	0.9784	0.0263	0.3627	0.0269	0.3707
59	20.40	-0.11	0.1275	0.0003	0.0183	0.0027	0.1434	0.9898	0.0268	0.3666	0.0271	0.3704
60	20.74	-0.09	0.1274	0.0	0.0182	0.0	0.1433	1.0065	0.0276	0.3705	0.0274	0.3681
61	21.08	-0.10	0.1342	0.0007	0.0205	0.0052	0.1529	1.0209	0.0270	0.3728	0.0264	0.3651
62	21.39	-0.09	0.1434	0.0004	0.0172	0.0031	0.1198	1.0219	0.0269	0.3752	0.0263	0.3672
63	21.73	-0.09	0.1433	0.0007	0.0175	0.0049	0.1253	1.0386	0.0269	0.3764	0.0259	0.3624
64	22.03	-0.10	0.1341	0.0	0.0206	0.0	0.1535	1.0520	0.0270	0.3799	0.0257	0.3612
65	22.31	-0.10	0.1465	0.0007	0.0191	0.0048	0.1305	1.0582	0.0267	0.3802	0.0252	0.3593
66	22.63	-0.09	0.1475	0.0	0.0167	0.0	0.1136	1.0628	0.0270	0.3828	0.0254	0.3602
67	22.94	-0.10	0.1418	0.0008	0.0211	0.0056	0.1492	1.0738	0.0268	0.3856	0.0249	0.3591
68	23.27	-0.11	0.1540	0.0008	0.0198	0.0055	0.1287	1.0882	0.0264	0.3887	0.0243	0.3572
69	23.58	-0.09	0.1536	0.0008	0.0206	0.0055	0.1340	1.0928	0.0273	0.3876	0.0250	0.3547
70	23.90	-0.10	0.1485	0.0013	0.0234	0.0088	0.1575	1.1007	0.0270	0.3926	0.0246	0.3566
71	24.21	-0.11	0.1573	0.0012	0.0205	0.0076	0.1330	1.1042	0.0276	0.3924	0.0250	0.3554
72	24.53	-0.10	0.1512	0.0017	0.0186	0.0112	0.1229	1.1142	0.0279	0.3932	0.0251	0.3529
73	24.82	-0.12	0.1543	0.0014	0.0197	0.0091	0.1278	1.1176	0.0284	0.3939	0.0254	0.3524
74	25.12	-0.11	0.1544	0.0013	0.0198	0.0084	0.1286	1.1248	0.0288	0.3928	0.0256	0.3492
75	25.44	-0.10	0.1650	0.0013	0.0216	0.0079	0.1308	1.1344	0.0280	0.3942	0.0247	0.3475
76	25.73	-0.10	0.1544	0.0011	0.0198	0.0074	0.1286	1.1311	0.0279	0.3902	0.0247	0.3450
77	26.04	-0.10	0.1611	0.0017	0.0220	0.0109	0.1364	1.1449	0.0278	0.4002	0.0243	0.3495
78	26.32	-0.11	0.1727	0.0013	0.0214	0.0075	0.1242	1.1405	0.0270	0.3928	0.0237	0.3444
79	26.64	-0.11	0.1672	0.0013	0.0176	0.0078	0.1053	1.1222	0.0240	0.3783	0.0214	0.3371
80	26.93	-0.11	0.1842	0.0022	0.0224	0.0122	0.1215	1.1326	0.0246	0.3852	0.0218	0.3401
81	27.26	-0.12	0.1655	0.0022	0.0215	0.0133	0.1302	1.1390	0.0243	0.3852	0.0213	0.3382
82	27.57	-0.13	0.1774	0.0022	0.0209	0.0124	0.1179	1.1347	0.0241	0.3826	0.0212	0.3372
83	27.88	-0.12	0.1683	0.0029	0.0242	0.0172	0.1437	1.1424	0.0220	0.3815	0.0193	0.3339
84	28.17	-0.12	0.1627	0.0017	0.0196	0.0108	0.1206	1.1108	0.0207	0.3660	0.0187	0.3295
85	28.51	-0.09	0.1721	0.0033	0.0236	0.0195	0.1374	1.1715	0.0237	0.3983	0.0203	0.3400
86	28.82	-0.11	0.1771	0.0023	0.0209	0.0133	0.1181	1.1423	0.0192	0.3725	0.0168	0.3261
87	29.12	-0.14	0.1727	0.0024	0.0279	0.0142	0.1618	1.1711	0.0198	0.3864	0.0169	0.3300
88	29.47	-0.11	0.1786	0.0029	0.0243	0.0162	0.1361	1.1554	0.0196	0.3841	0.0170	0.3324
89	29.78	-0.07	0.1923	0.0029	0.0264	0.0153	0.1372	1.1636	0.0177	0.3794	0.0152	0.3261
90	30.11	-0.19	0.1814	0.0029	0.0245	0.0160	0.1353	1.1653	0.0179	0.3829	0.0154	0.3286

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	46	0.97	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.75	-0.01	-0.5096	0.5935	0.0819	-0.0627	0.0060	0.2379	-1.1646		
2	-2.49	-0.02	-0.4804	0.5716	0.0192	-0.0779	0.0080	0.2424	-1.1898		
3	-1.90	-0.07	-0.3607	0.4179	0.0107	-0.0820	0.0060	0.2437	-1.1568		
4	-1.34	-0.02	-0.2571	0.2929	0.0213	-0.0618	0.0070	0.2474	-1.1394		
5	-0.76	-0.02	-0.1516	0.2082	0.0528	-0.0499	0.0070	0.2535	-1.3736		
6	-0.22	-0.02	-0.0834	0.1217	0.0338	-0.0523	0.0030	0.2550	-1.4600		
7	0.32	-0.02	0.0174	0.0456	0.0252	-0.1123	0.0070	0.2589	2.6230		
8	0.84	-0.02	0.1055	-0.0307	0.0427	-0.0838	0.0070	0.2595	-0.2910		
9	1.36	-0.02	0.2016	-0.1452	0.0586	-0.0430	0.0030	0.2572	-0.7204		
10	1.86	-0.02	0.2773	-0.2392	0.0101	-0.0831	0.0050	0.2567	-0.8627		
11	2.33	-0.02	0.3911	-0.3856	0.0118	-0.1015	0.0080	0.2546	-0.9859		
12	2.84	-0.02	0.4409	-0.5043	0.0466	-0.0772	0.0050	0.2550	-1.0486		
13	3.29	-0.03	0.5615	-0.6502	-0.0246	-0.1005	0.0100	0.2578	-1.1578		
14	3.78	-0.03	0.7027	-0.8228	0.0221	-0.1069	0.0120	0.2506	-1.1709		
15	4.21	-0.03	0.7790	-0.9706	0.0791	-0.0477	0.0070	0.2493	-1.2460		
16	4.68	-0.04	0.8473	-1.0992	0.0326	-0.0436	0.0080	0.2552	-1.2250		
17	5.13	-0.04	1.0126	-1.3056	0.0410	-0.0714	0.0080	0.2502	-1.2894		
18	5.60	-0.03	1.1188	-1.4753	0.0942	-0.0507	0.0100	0.2475	-1.3187		
19	6.04	-0.05	1.2185	-1.6240	0.0237	-0.0452	0.0150	0.2490	-1.3327		
20	6.48	-0.05	1.3351	-1.7412	0.0774	-0.1213	0.0130	0.2442	-1.3041		
21	6.96	-0.06	1.4454	-1.9296	0.0256	-0.1178	0.0130	0.2429	-1.3350		
22	7.39	-0.06	1.5802	-2.1673	0.0220	-0.0168	0.0100	0.2386	-1.3715		
23	7.84	-0.05	1.6596	-2.3034	0.1028	-0.0419	0.0150	0.2377	-1.3879		
24	8.27	-0.08	1.8005	-2.4927	0.0082	-0.0505	0.0140	0.2427	-1.3844		
25	8.71	-0.08	1.8966	-2.6872	-0.0023	-0.0738	0.0130	0.2315	-1.4169		
26	9.10	-0.08	1.9979	-2.8111	-0.0487	-0.0778	0.0140	0.2355	-1.4070		
27	9.52	-0.08	2.1361	-3.0166	-0.0382	-0.0385	0.0130	0.2339	-1.4122		
28	9.94	-0.08	2.2396	-3.1804	0.0150	-0.0210	0.0120	0.2275	-1.4201		
29	10.34	-0.02	2.3551	-3.3691	-0.0263	0.0388	0.0160	0.2214	-1.4306		
30	10.76	-0.06	2.4666	-3.5682	0.0200	-0.0010	0.0130	0.2146	-1.4406		
31	11.17	-0.06	2.5876	-3.7236	-0.0057	0.0020	0.0150	0.2091	-1.4390		
32	11.53	-0.08	2.6929	-3.8901	-0.0176	-0.0511	0.0150	0.2049	-1.4446		
33	11.88	-0.06	2.7444	-4.0542	0.0200	-0.0150	0.0170	0.2005	-1.4508		
34	12.26	-0.07	2.9315	-4.2351	-0.0298	-0.0303	0.0160	0.1993	-1.4447		
35	12.61	-0.05	3.0230	-4.3872	0.0355	0.0163	0.0140	0.1985	-1.4513		
36	12.97	-0.07	3.1652	-4.6062	-0.0126	-0.0444	0.0180	0.1893	-1.4553		
37	13.30	-0.07	3.2249	-4.7508	-0.0076	-0.0424	0.0150	0.1895	-1.4732		
38	13.66	-0.06	3.3434	-4.8677	0.0080	0.0748	0.0200	0.1842	-1.4559		
39	14.05	-0.05	3.4970	-5.0948	0.0494	-0.0282	0.0190	0.1759	-1.4509		
40	14.39	-0.07	3.5994	-5.2652	-0.0451	0.0351	0.0120	0.1770	-1.4628		
41	14.75	-0.06	3.6834	-5.4447	-0.0058	-0.0149	0.0200	0.1710	-1.4782		
42	15.10	-0.07	3.8107	-5.6069	-0.0623	0.0052	0.0170	0.1678	-1.4714		
43	15.47	-0.08	3.9113	-5.7338	-0.1203	0.0654	0.0140	0.1738	-1.4660		
44	15.78	-0.05	4.0346	-5.9484	-0.0090	0.1306	0.0210	0.1727	-1.4743		
45	16.13	-0.08	4.1644	-6.1061	-0.0688	0.1033	0.0140	0.1681	-1.4663		
46	16.44	-0.08	4.2419	-6.2027	-0.0789	0.1124	0.0130	0.1644	-1.4622		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	UEL1	UEL2	DEL3	DEL4	TRANSITION
6 46 0.97 1.7			0.0	82W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.77	-0.08	4.3502	-6.3873	-0.0514	0.1199	0.0100	0.1597	-1.4683	
48	17.10	-0.08	4.4566	-6.5502	-0.0819	0.1296	-0.0040	0.1543	-1.4698	
49	17.41	-0.08	4.5610	-6.7404	-0.1006	0.2328	-0.0080	0.1504	-1.4778	
50	17.76	-0.08	4.7066	-6.8912	-0.0098	0.2027	-0.0090	0.1442	-1.4642	
51	18.09	-0.08	4.7680	-6.9861	-0.0662	0.1897	-0.0100	0.1425	-1.4652	
52	18.42	-0.07	4.8674	-7.1613	-0.0370	0.1698	-0.0140	0.1392	-1.4713	
53	18.75	-0.09	4.9424	-7.3144	-0.0815	0.1891	-0.0060	0.1392	-1.4651	
54	19.09	-0.09	5.0801	-7.4121	-0.0418	0.1285	-0.0180	0.1330	-1.4590	
55	19.39	-0.08	5.1521	-7.5529	-0.0642	0.2149	-0.0040	0.1240	-1.4660	
56	19.74	-0.09	5.2799	-7.6098	-0.0674	0.1733	-0.0090	0.1203	-1.4413	
57	20.07	-0.09	5.3524	-7.7433	-0.0245	0.0683	-0.0100	0.1129	-1.4467	
58	20.43	-0.08	5.5002	-7.9032	-0.0791	0.1347	-0.0130	0.1065	-1.4369	
59	20.74	-0.09	5.5670	-7.9927	-0.1629	0.2360	-0.0230	0.1036	-1.4357	
60	21.06	-0.07	5.6344	-8.1081	-0.0686	0.2160	-0.0220	0.0933	-1.4390	
61	21.41	-0.08	5.7614	-8.1890	-0.0236	0.2320	-0.0270	0.0885	-1.4213	
62	21.72	-0.09	5.8306	-8.2759	-0.1418	0.3335	-0.0280	0.0859	-1.4194	
63	22.04	-0.10	5.9407	-8.3630	-0.1125	0.1295	-0.0300	0.0778	-1.4077	
64	22.34	-0.10	6.0072	-8.3941	-0.1210	0.2854	-0.0260	0.0679	-1.3973	
65	22.66	-0.09	6.1474	-8.4614	-0.1171	0.3939	-0.0270	0.0668	-1.3764	
66	22.98	-0.10	6.2276	-8.5496	-0.1463	0.3248	-0.0300	0.0644	-1.3729	
67	23.28	-0.10	6.3392	-8.6059	-0.1251	0.2711	-0.0430	0.0599	-1.3576	
68	23.61	-0.09	6.4663	-8.6128	-0.0594	0.2621	-0.0390	0.0572	-1.3320	
69	23.92	-0.09	6.5769	-8.6878	-0.1072	0.4340	-0.0400	0.0597	-1.3209	
70	24.27	-0.10	6.6660	-8.7005	-0.1239	0.3354	-0.0520	0.0515	-1.3052	
71	24.58	-0.10	6.7825	-8.6728	-0.1386	0.2450	-0.0570	0.0502	-1.2787	
72	24.90	-0.11	6.8857	-8.6681	-0.0505	0.2257	-0.0660	0.0505	-1.2589	
73	25.20	-0.11	6.9626	-8.6268	-0.1388	0.3823	-0.0740	0.0494	-1.2390	
74	25.49	-0.11	7.0694	-8.5473	-0.1037	0.3631	-0.0930	0.0541	-1.2091	
75	25.81	-0.10	7.1366	-8.5734	-0.0830	0.3742	-0.0900	0.0409	-1.2013	
76	26.12	-0.12	7.2856	-8.5551	-0.1680	0.2762	-0.0930	0.0403	-1.1742	
77	26.43	-0.10	7.3640	-8.5589	-0.0512	0.3036	-0.0990	0.0377	-1.1623	
78	26.72	-0.11	7.5010	-8.5937	-0.0918	0.2875	-0.1000	0.0341	-1.1457	
79	27.05	-0.11	7.6016	-8.4595	-0.1697	0.4735	-0.1100	0.0244	-1.1129	
80	27.33	-0.11	7.6767	-8.5427	-0.0840	0.2286	-0.1040	0.0214	-1.1128	
81	27.69	-0.11	7.8800	-8.4853	-0.1378	0.3839	-0.1010	0.0121	-1.0768	
82	27.97	-0.12	7.9197	-8.4289	-0.1509	0.2672	-0.1080	0.0061	-1.0643	
83	28.28	-0.12	8.0757	-8.4274	-0.2018	0.4585	-0.1130	-0.0040	-1.0435	
84	28.58	-0.11	8.1861	-8.3680	-0.1650	0.4449	-0.1170	-0.0111	-1.0222	
85	28.89	-0.10	8.2750	-8.4504	0.0066	0.1937	-0.1110	-0.0156	-1.0212	
86	29.20	-0.11	8.3476	-8.3961	-0.0133	0.0266	-0.1200	-0.0278	-1.0058	
87	29.45	-0.15	8.4268	-8.4240	-0.2775	0.0685	-0.1180	-0.0473	-0.9997	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	46	0.97	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	-2.75	-0.01	0.0056	0.0009	-0.0208	0.1607	-3.7204	-0.1417	0.0087	-0.0461	-0.0614	0.3255
2	-2.49	-0.02	-0.0098	0.0011	-0.0191	-0.1173	1.9455	-0.1399	0.0081	-0.0413	-0.0582	0.2953
3	-1.90	-0.07	-0.0021	0.0010	-0.0200	-0.4999	9.5237	-0.1113	0.0060	-0.0276	-0.0539	0.2479
4	-1.34	-0.02	-0.0097	0.0011	-0.0191	-0.1134	1.9724	-0.0851	0.0039	-0.0162	-0.0458	0.1899
5	-0.76	-0.02	-0.0190	0.0013	-0.0180	-0.0684	0.9490	-0.0673	0.0021	-0.0060	-0.0319	0.0895
6	-0.22	-0.02	-0.0005	0.0010	-0.0202	-1.9996	40.3332	-0.0503	0.0004	0.0012	-0.0080	-0.0246
7	0.32	-0.02	-0.0250	0.0013	-0.0174	-0.0540	0.6972	-0.0323	-0.0018	0.0112	0.0573	-0.3479
8	0.84	-0.02	-0.0113	0.0012	-0.0189	-0.1062	1.6695	-0.0150	-0.0029	0.0178	0.1933	-1.1868
9	1.36	-0.02	0.0056	0.0009	-0.0208	0.1607	-3.7204	0.0061	-0.0044	0.0268	-0.7212	4.3988
10	1.86	-0.02	0.0101	0.0008	-0.0212	0.0841	-2.1024	0.0273	-0.0058	0.0353	-0.2142	1.2929
11	2.33	-0.02	-0.0006	0.0010	-0.0200	-1.7497	33.3332	0.0463	-0.0074	0.0470	-0.1609	1.0157
12	2.84	-0.02	0.0117	0.0008	-0.0214	0.0684	-1.8292	0.0718	-0.0089	0.0550	-0.1239	0.7664
13	3.29	-0.03	0.0117	0.0008	-0.0214	0.0684	-1.8292	0.0869	-0.0097	0.0645	-0.1116	0.7429
14	3.78	-0.03	0.0147	0.0007	-0.0217	0.0510	-1.4763	0.1129	-0.0105	0.0764	-0.0934	0.6769
15	4.21	-0.03	0.0207	0.0007	-0.0224	0.0338	-1.0822	0.1308	-0.0110	0.0848	-0.0845	0.6482
16	4.68	-0.04	0.0147	0.0007	-0.0217	0.0510	-1.4763	0.1545	-0.0112	0.0937	-0.0725	0.6064
17	5.13	-0.04	0.0116	0.0008	-0.0213	0.0733	-1.8392	0.1763	-0.0107	0.1041	-0.0607	0.5907
18	5.60	-0.03	0.0192	0.0007	-0.0222	0.0365	-1.1564	0.2013	-0.0102	0.1133	-0.0509	0.5627
19	6.04	-0.05	0.0056	0.0008	-0.0206	0.1518	-3.6846	0.2221	-0.0098	0.1210	-0.0443	0.5448
20	6.48	-0.05	0.0116	0.0008	-0.0213	0.0733	-1.8392	0.2428	-0.0093	0.1298	-0.0383	0.5346
21	6.96	-0.06	0.0117	0.0008	-0.0214	0.0634	-1.8292	0.2665	-0.0094	0.1395	-0.0353	0.5235
22	7.39	-0.06	0.0101	0.0008	-0.0211	0.0641	-2.0925	0.2930	-0.0093	0.1472	-0.0317	0.5024
23	7.84	-0.05	0.0147	0.0007	-0.0216	0.0476	-1.4695	0.3147	-0.0092	0.1554	-0.0292	0.4936
24	8.27	-0.08	0.0116	0.0008	-0.0213	0.0690	-1.8392	0.3344	-0.0095	0.1643	-0.0284	0.4914
25	8.71	-0.08	0.0056	0.0008	-0.0206	0.1518	-3.6846	0.3609	-0.0098	0.1739	-0.0273	0.4817
26	9.10	-0.08	0.0116	0.0008	-0.0213	0.0733	-1.8392	0.3793	-0.0100	0.1797	-0.0264	0.4737
27	9.52	-0.08	0.0207	0.0006	-0.0223	0.0314	-1.0774	0.4035	-0.0100	0.1890	-0.0249	0.4682
28	9.94	-0.08	0.0252	0.0006	-0.0228	0.0238	-0.9049	0.4237	-0.0100	0.1953	-0.0237	0.4609
29	10.34	-0.02	0.0147	0.0007	-0.0216	0.0476	-1.4695	0.4463	-0.0101	0.2027	-0.0227	0.4542
30	10.76	-0.06	0.0117	0.0007	-0.0213	0.0598	-1.8206	0.4693	-0.0100	0.2101	-0.0213	0.4476
31	11.17	-0.06	0.0147	0.0007	-0.0216	0.0476	-1.4695	0.4923	-0.0099	0.2153	-0.0201	0.4374
32	11.53	-0.08	0.0283	0.0005	-0.0232	0.0177	-0.8187	0.5136	-0.0098	0.2237	-0.0192	0.4356
33	11.88	-0.06	0.0101	0.0008	-0.0210	0.0792	-2.0826	0.5276	-0.0089	0.2287	-0.0169	0.4335
34	12.26	-0.07	0.0253	0.0006	-0.0229	0.0237	-0.9039	0.5516	-0.0088	0.2359	-0.0159	0.4276
35	12.61	-0.05	0.0288	0.0005	-0.0230	0.0187	-0.8571	0.5675	-0.0088	0.2397	-0.0155	0.4224
36	12.97	-0.07	0.0434	0.0003	-0.0248	0.0069	-0.5723	0.5920	-0.0079	0.2469	-0.0133	0.4170
37	13.30	-0.07	0.0495	0.0002	-0.0255	0.0040	-0.5153	0.6112	-0.0083	0.2510	-0.0136	0.4108
38	13.66	-0.06	0.0450	0.0002	-0.0250	0.0044	-0.5557	0.6192	-0.0083	0.2551	-0.0135	0.4120
39	14.05	-0.05	0.0495	0.0002	-0.0255	0.0040	-0.5153	0.6450	-0.0083	0.2623	-0.0129	0.4067
40	14.39	-0.07	0.0663	-0.0000	-0.0274	-0.0008	-0.4134	0.6717	-0.0081	0.2673	-0.0121	0.3980
41	14.75	-0.06	0.0662	-0.0001	-0.0273	-0.0015	-0.4130	0.6840	-0.0084	0.2720	-0.0123	0.3977
42	15.10	-0.07	0.0602	0.0	-0.0267	0.0	-0.4442	0.7078	-0.0083	0.2778	-0.0117	0.3925
43	15.47	-0.08	0.0947	-0.0004	-0.0305	-0.0048	-0.3225	0.7264	-0.0082	0.2837	-0.0113	0.3906
44	15.78	-0.05	0.0857	-0.0003	-0.0295	-0.0041	-0.3447	0.7412	-0.0083	0.2879	-0.0112	0.3884
45	16.13	-0.08	0.0903	-0.0004	-0.0301	-0.0050	-0.3335	0.7670	-0.0073	0.2934	-0.0095	0.3825
46	16.44	-0.08	0.0812	-0.0003	-0.0290	-0.0043	-0.3577	0.7819	-0.0073	0.2973	-0.0093	0.3803

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		46	0.97	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.77	-0.08	0.1054	-0.0007	-0.0318	-0.0071	-0.3015	0.8018	-0.0065	0.3028	-0.0081	0.3777
48	17.10	-0.08	0.1172	-0.0009	-0.0330	-0.0077	-0.2620	0.8216	-0.0058	0.3083	-0.0071	0.3753
49	17.41	-0.08	0.1262	-0.0010	-0.0340	-0.0083	-0.2698	0.8457	-0.0053	0.3136	-0.0063	0.3708
50	17.76	-0.08	0.1490	-0.0013	-0.0366	-0.0091	-0.2460	0.8658	-0.0044	0.3196	-0.0051	0.3691
51	18.09	-0.08	0.1551	-0.0015	-0.0373	-0.0097	-0.2406	0.8806	-0.0044	0.3236	-0.0051	0.3675
52	18.42	-0.07	0.1566	-0.0015	-0.0374	-0.0099	-0.2389	0.9023	-0.0035	0.3292	-0.0039	0.3648
53	18.75	-0.09	0.1309	-0.0012	-0.0346	-0.0092	-0.2642	0.9234	-0.0029	0.3340	-0.0031	0.3617
54	19.09	-0.09	0.1610	-0.0016	-0.0379	-0.0102	-0.2357	0.9350	-0.0023	0.3376	-0.0025	0.3610
55	19.39	-0.08	0.1505	-0.0015	-0.0367	-0.0100	-0.2442	0.9554	-0.0013	0.3417	-0.0014	0.3576
56	19.74	-0.09	0.1628	-0.0017	-0.0381	-0.0104	-0.2344	0.9698	-0.0002	0.3434	-0.0003	0.3540
57	20.07	-0.09	0.1492	-0.0014	-0.0367	-0.0094	-0.2459	0.9788	0.0007	0.3462	0.0007	0.3536
58	20.43	-0.08	0.1612	-0.0016	-0.0380	-0.0102	-0.2356	0.9965	0.0010	0.3494	0.0010	0.3506
59	20.74	-0.09	0.1870	-0.0021	-0.0409	-0.0115	-0.2187	1.0127	0.0011	0.3540	0.0011	0.3496
60	21.06	-0.07	0.1810	-0.0020	-0.0403	-0.0113	-0.2226	1.0197	-0.0006	0.3564	-0.0006	0.3495
61	21.41	-0.08	0.1810	-0.0020	-0.0403	-0.0113	-0.2226	1.0347	-0.0008	0.3604	-0.0008	0.3483
62	21.72	-0.09	0.1961	-0.0023	-0.0419	-0.0117	-0.2140	1.0429	-0.0001	0.3613	-0.0001	0.3464
63	22.04	-0.10	0.1962	-0.0022	-0.0419	-0.0115	-0.2137	1.0601	0.0018	0.3651	0.0017	0.3444
64	22.34	-0.10	0.1963	-0.0023	-0.0420	-0.0117	-0.2139	1.0588	0.0010	0.3649	0.0010	0.3446
65	22.66	-0.09	0.1932	-0.0022	-0.0416	-0.0116	-0.2154	1.0747	0.0019	0.3691	0.0018	0.3434
66	22.98	-0.10	0.2084	-0.0024	-0.0434	-0.0118	-0.2081	1.0854	0.0023	0.3718	0.0022	0.3425
67	23.28	-0.10	0.2356	-0.0029	-0.0464	-0.0125	-0.1969	1.0929	0.0037	0.3745	0.0034	0.3426
68	23.61	-0.09	0.2323	-0.0029	-0.0460	-0.0127	-0.1980	1.1091	0.0044	0.3779	0.0040	0.3407
69	23.92	-0.09	0.2719	-0.0036	-0.0504	-0.0132	-0.1854	1.1147	0.0037	0.3794	0.0034	0.3404
70	24.27	-0.10	0.2839	-0.0038	-0.0518	-0.0134	-0.1823	1.1253	0.0060	0.3819	0.0053	0.3393
71	24.58	-0.10	0.3061	-0.0040	-0.0543	-0.0132	-0.1772	1.1318	0.0070	0.3833	0.0062	0.3387
72	24.90	-0.11	0.2863	-0.0038	-0.0521	-0.0133	-0.1818	1.1464	0.0058	0.3858	0.0051	0.3365
73	25.20	-0.11	0.2918	-0.0039	-0.0526	-0.0135	-0.1803	1.1480	0.0062	0.3864	0.0054	0.3366
74	25.49	-0.11	0.2921	-0.0041	-0.0526	-0.0140	-0.1801	1.1583	0.0031	0.3897	0.0027	0.3364
75	25.81	-0.10	0.3161	-0.0044	-0.0553	-0.0139	-0.1750	1.1650	0.0052	0.3905	0.0045	0.3352
76	26.12	-0.12	0.2773	-0.0037	-0.0511	-0.0135	-0.1841	1.1774	0.0046	0.3936	0.0039	0.3343
77	26.43	-0.10	0.3074	-0.0043	-0.0543	-0.0140	-0.1767	1.1815	0.0042	0.3953	0.0036	0.3346
78	26.72	-0.11	0.2926	-0.0040	-0.0526	-0.0138	-0.1803	1.1934	0.0061	0.3965	0.0052	0.3322
79	27.05	-0.11	0.3139	-0.0045	-0.0552	-0.0145	-0.1757	1.1979	0.0044	0.3967	0.0037	0.3311
80	27.33	-0.11	0.2927	-0.0040	-0.0528	-0.0137	-0.1804	1.2150	0.0066	0.3978	0.0055	0.3274
81	27.64	-0.11	0.2866	-0.0038	-0.0522	-0.0133	-0.1820	1.2104	0.0078	0.3985	0.0065	0.3292
82	27.97	-0.12	0.3075	-0.0041	-0.0545	-0.0135	-0.1772	1.2165	0.0086	0.3985	0.0071	0.3276
83	28.28	-0.12	0.3410	-0.0046	-0.0582	-0.0136	-0.1707	1.2269	0.0038	0.4019	0.0072	0.3270
84	28.58	-0.11	0.3078	-0.0040	-0.0545	-0.0132	-0.1770	1.2400	0.0106	0.4024	0.0086	0.3245
85	28.89	-0.10	0.2700	-0.0033	-0.0502	-0.0122	-0.1860	1.2518	0.0121	0.4025	0.0097	0.3216
86	29.20	-0.11	0.2625	-0.0032	-0.0494	-0.0122	-0.1883	1.2572	0.0126	0.4035	0.0100	0.3210
87	29.45	-0.15	0.2988	-0.0038	-0.0535	-0.0127	-0.1790	1.2662	0.0136	0.4038	0.0107	0.3189

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RATIO	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	46	0.97	1.7	0.0	82M3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.75	-0.01	0.0580	-0.0026	-0.0037	-0.0457	-0.0633	-0.1712	0.0076	-0.0374	-0.0447	0.2187
2	-2.49	-0.02	0.0693	-0.0027	-0.0050	-0.0397	-0.0723	-0.1656	0.0072	-0.0343	-0.0438	0.2070
3	-1.90	-0.07	0.0692	-0.0029	-0.0049	-0.0426	-0.0714	-0.1249	0.0054	-0.0236	-0.0436	0.1891
4	-1.34	-0.02	0.0638	-0.0031	-0.0015	-0.0494	-0.0242	-0.0922	0.0036	-0.0138	-0.0396	0.1499
5	-0.76	-0.02	0.0726	-0.0030	-0.0047	-0.0420	-0.0649	-0.0734	0.0020	-0.0053	-0.0279	0.0716
6	-0.22	-0.02	0.0704	-0.0036	-0.0009	-0.0518	-0.0134	-0.0428	-0.0000	0.0034	0.0012	-0.0803
7	0.32	-0.02	0.0751	-0.0033	-0.0025	-0.0446	-0.0383	-0.0177	-0.0018	0.0102	0.1045	-0.5764
8	0.84	-0.02	0.0775	-0.0036	-0.0011	-0.0464	-0.0139	0.0059	-0.0035	0.0191	-0.6016	3.2315
9	1.36	-0.02	0.0726	-0.0036	0.0016	-0.0496	0.0219	0.0305	-0.0053	0.0295	-0.1737	0.9660
10	1.86	-0.02	0.0687	-0.0036	0.0020	-0.0524	0.0290	0.0550	-0.0069	0.0388	-0.1263	0.7059
11	2.33	-0.02	0.0724	-0.0036	0.0016	-0.0497	0.0224	0.0792	-0.0084	0.0485	-0.1060	0.6123
12	2.84	-0.02	0.0746	-0.0036	0.0042	-0.0482	0.0557	0.1139	-0.0098	0.0594	-0.0860	0.5220
13	3.29	-0.03	0.0709	-0.0033	0.0045	-0.0465	0.0638	0.1386	-0.0106	0.0680	-0.0768	0.4905
14	3.78	-0.03	0.0763	-0.0031	0.0011	-0.0406	0.0147	0.1679	-0.0113	0.0789	-0.0673	0.4702
15	4.21	-0.03	0.0813	-0.0032	0.0047	-0.0400	0.0577	0.1923	-0.0115	0.0891	-0.0601	0.4632
16	4.68	-0.04	0.0776	-0.0030	0.0052	-0.0393	0.0665	0.2165	-0.0114	0.0988	-0.0529	0.4565
17	5.13	-0.04	0.0859	-0.0029	0.0028	-0.0343	0.0329	0.2404	-0.0111	0.1077	-0.0462	0.4480
18	5.60	-0.03	0.0849	-0.0026	0.0050	-0.0306	0.0588	0.2709	-0.0108	0.1179	-0.0399	0.4355
19	6.04	-0.05	0.0889	-0.0029	0.0038	-0.0332	0.0430	0.2938	-0.0110	0.1267	-0.0374	0.4312
20	6.48	-0.05	0.0814	-0.0026	0.0047	-0.0325	0.0580	0.3122	-0.0106	0.1342	-0.0339	0.4299
21	6.96	-0.06	0.0839	-0.0022	0.0072	-0.0262	0.0853	0.3388	-0.0105	0.1455	-0.0310	0.4294
22	7.39	-0.06	0.0908	-0.0026	0.0071	-0.0286	0.0777	0.3655	-0.0105	0.1546	-0.0289	0.4229
23	7.84	-0.05	0.0831	-0.0025	0.0079	-0.0301	0.0949	0.3928	-0.0105	0.1633	-0.0268	0.4157
24	8.27	-0.08	0.0858	-0.0025	0.0097	-0.0291	0.1129	0.4145	-0.0104	0.1715	-0.0252	0.4138
25	8.71	-0.08	0.0933	-0.0024	0.0088	-0.0263	0.0942	0.4407	-0.0109	0.1804	-0.0248	0.4094
26	9.10	-0.08	0.0874	-0.0022	0.0067	-0.0252	0.0769	0.4610	-0.0109	0.1851	-0.0236	0.4015
27	9.52	-0.08	0.0942	-0.0026	0.0066	-0.0276	0.0699	0.4891	-0.0109	0.1955	-0.0224	0.3996
28	9.94	-0.08	0.0957	-0.0024	0.0106	-0.0256	0.1106	0.5094	-0.0106	0.2050	-0.0208	0.4020
29	10.34	-0.02	0.0981	-0.0021	0.0061	-0.0219	0.0621	0.5307	-0.0107	0.2103	-0.0202	0.3963
30	10.76	-0.06	0.0932	-0.0024	0.0088	-0.0263	0.0939	0.5593	-0.0108	0.2184	-0.0194	0.3904
31	11.17	-0.06	0.0893	-0.0018	0.0095	-0.0207	0.1104	0.5837	-0.0109	0.2250	-0.0188	0.3855
32	11.53	-0.08	0.1035	-0.0018	0.0097	-0.0179	0.0936	0.6057	-0.0106	0.2349	-0.0175	0.3879
33	11.88	-0.06	0.1000	-0.0021	0.0094	-0.0215	0.0942	0.6199	-0.0101	0.2388	-0.0164	0.3853
34	12.26	-0.07	0.1064	-0.0015	0.0115	-0.0141	0.1077	0.6536	-0.0097	0.2485	-0.0149	0.3802
35	12.61	-0.05	0.0985	-0.0018	0.0123	-0.0183	0.1251	0.6645	-0.0099	0.2523	-0.0149	0.3797
36	12.97	-0.07	0.1062	-0.0015	0.0114	-0.0141	0.1072	0.6947	-0.0095	0.2620	-0.0137	0.3771
37	13.30	-0.07	0.1032	-0.0015	0.0104	-0.0145	0.1007	0.7085	-0.0094	0.2663	-0.0133	0.3758
38	13.66	-0.06	0.1134	-0.0014	0.0113	-0.0123	0.0995	0.7274	-0.0093	0.2726	-0.0128	0.3747
39	14.05	-0.05	0.0964	-0.0019	0.0167	-0.0147	0.1735	0.7536	-0.0090	0.2813	-0.0120	0.3733
40	14.39	-0.07	0.0966	-0.0015	0.0167	-0.0155	0.1728	0.7730	-0.0087	0.2854	-0.0113	0.3692
41	14.75	-0.06	0.1023	-0.0017	0.0188	-0.0171	0.1837	0.7938	-0.0086	0.2948	-0.0109	0.3714
42	15.10	-0.07	0.0962	-0.0025	0.0168	-0.0260	0.1742	0.8092	-0.0084	0.3000	-0.0104	0.3708
43	15.47	-0.08	0.0963	-0.0018	0.0166	-0.0187	0.1723	0.8248	-0.0083	0.3050	-0.0101	0.3698
44	15.78	-0.05	0.1107	-0.0020	0.0158	-0.0181	0.1426	0.8508	-0.0080	0.3122	-0.0095	0.3669
45	16.13	-0.08	0.1136	-0.0014	0.0175	-0.0128	0.1536	0.8738	-0.0074	0.3184	-0.0085	0.3643
46	16.44	-0.08	0.1081	-0.0019	0.0208	-0.0180	0.1926	0.8861	-0.0073	0.3227	-0.0082	0.3641

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 46 0.97 1.7				0.0	82W3F12	16.750	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	16.77	-0.08	0.1173	-0.0014	0.0170	-0.0124	0.1448	0.9074	-0.0066	0.3288	-0.0073	0.3623
48	17.10	-0.08	0.1117	-0.0016	0.0203	-0.0148	0.1819	0.9279	-0.0066	0.3359	-0.0071	0.3620
49	17.41	-0.08	0.1170	-0.0014	0.0170	-0.0124	0.1452	0.9492	-0.0059	0.3415	-0.0063	0.3598
50	17.76	-0.08	0.1129	-0.0017	0.0182	-0.0155	0.1614	0.9656	-0.0050	0.3464	-0.0052	0.3587
51	18.09	-0.08	0.1174	-0.0008	0.0165	-0.0072	0.1441	0.9779	-0.0049	0.3500	-0.0050	0.3579
52	18.42	-0.07	0.1301	-0.0008	0.0196	-0.0061	0.1510	0.9932	-0.0043	0.3554	-0.0043	0.3579
53	18.75	-0.09	0.1235	-0.0003	0.0189	-0.0024	0.1535	1.0123	-0.0032	0.3602	-0.0032	0.3558
54	19.09	-0.09	0.1361	-0.0003	0.0216	-0.0026	0.1591	1.0265	-0.0021	0.3633	-0.0020	0.3540
55	19.39	-0.08	0.1346	-0.0004	0.0176	-0.0030	0.1311	1.0426	-0.0012	0.3686	-0.0012	0.3535
56	19.74	-0.09	0.1304	-0.0003	0.0156	-0.0023	0.1507	1.0533	-0.0011	0.3718	-0.0011	0.3530
57	20.07	-0.09	0.1322	-0.0002	0.0228	-0.0019	0.1729	1.0631	-0.0005	0.3753	-0.0005	0.3531
58	20.43	-0.08	0.1365	0.0000	0.0216	0.0004	0.1581	1.0799	-0.0002	0.3805	-0.0002	0.3524
59	20.74	-0.09	0.1290	0.0000	0.0225	0.0004	0.1743	1.0946	-0.0001	0.3849	-0.0001	0.3517
60	21.06	-0.07	0.1361	-0.0007	0.0217	-0.0055	0.1598	1.1075	0.0004	0.3883	0.0004	0.3506
61	21.41	-0.08	0.1290	0.0000	0.0225	0.0004	0.1743	1.1226	0.0013	0.3915	0.0012	0.3487
62	21.72	-0.09	0.1346	0.0000	0.0184	0.0004	0.1371	1.1320	0.0017	0.3942	0.0015	0.3482
63	22.04	-0.10	0.1307	0.0003	0.0195	0.0027	0.1496	1.1388	0.0012	0.3958	0.0011	0.3475
64	22.34	-0.10	0.1366	0.0000	0.0216	0.0004	0.1583	1.1485	0.0022	0.3986	0.0020	0.3471
65	22.66	-0.09	0.1351	0.0000	0.0177	0.0004	0.1311	1.1666	0.0038	0.4051	0.0033	0.3473
66	22.98	-0.10	0.1478	0.0007	0.0216	0.0047	0.1424	1.1761	0.0027	0.4064	0.0023	0.3455
67	23.28	-0.10	0.1442	0.0012	0.0214	0.0083	0.1487	1.1803	0.0027	0.4095	0.0023	0.3469
68	23.61	-0.09	0.1367	0.0006	0.0216	0.0048	0.1584	1.1958	0.0032	0.4117	0.0027	0.3443
69	23.92	-0.09	0.1481	0.0007	0.0203	0.0047	0.1374	1.2114	0.0037	0.4164	0.0031	0.3438
70	24.27	-0.10	0.1483	0.0011	0.0203	0.0074	0.1370	1.2145	0.0033	0.4172	0.0027	0.3435
71	24.58	-0.10	0.1497	0.0016	0.0243	0.0110	0.1622	1.2203	0.0031	0.4198	0.0025	0.3440
72	24.90	-0.11	0.1566	0.0012	0.0241	0.0080	0.1538	1.1970	0.0102	0.4121	0.0086	0.3443
73	25.20	-0.11	0.1536	0.0011	0.0223	0.0072	0.1451	1.2048	0.0110	0.4126	0.0091	0.3425
74	25.49	-0.11	0.1492	0.0012	0.0242	0.0080	0.1623	1.1829	0.0149	0.4042	0.0126	0.3417
75	25.81	-0.10	0.1474	0.0012	0.0205	0.0081	0.1419	1.1894	0.0143	0.4087	0.0120	0.3436
76	26.12	-0.12	0.1570	0.0016	0.0234	0.0105	0.1491	1.1936	0.0146	0.4066	0.0123	0.3407
77	26.43	-0.10	0.1565	0.0012	0.0241	0.0080	0.1543	1.1992	0.0148	0.4098	0.0124	0.3417
78	26.72	-0.11	0.1579	0.0016	0.0214	0.0104	0.1388	1.2024	0.0154	0.4078	0.0128	0.3392
79	27.05	-0.11	0.1537	0.0012	0.0230	0.0081	0.1497	1.1988	0.0173	0.4052	0.0145	0.3380
80	27.33	-0.11	0.1578	0.0012	0.0220	0.0079	0.1393	1.2075	0.0166	0.4090	0.0137	0.3388
81	27.69	-0.11	0.1606	0.0016	0.0237	0.0103	0.1477	1.2185	0.0168	0.4111	0.0138	0.3374
82	27.97	-0.12	0.1631	0.0016	0.0254	0.0101	0.1560	1.2087	0.0176	0.4103	0.0146	0.3395
83	28.28	-0.12	0.1544	0.0017	0.0223	0.0113	0.1447	1.2175	0.0179	0.4117	0.0147	0.3381
84	28.58	-0.11	0.1483	0.0016	0.0272	0.0111	0.1835	1.2229	0.0176	0.4134	0.0144	0.3380
85	28.89	-0.10	0.1808	0.0023	0.0262	0.0127	0.1452	1.2278	0.0176	0.4119	0.0143	0.3355
86	29.20	-0.11	0.1769	0.0018	0.0266	0.0102	0.1506	1.2274	0.0186	0.4124	0.0152	0.3360
87	29.45	-0.15	0.1781	0.0018	0.0244	0.0101	0.1373	1.2214	0.0172	0.4045	0.0141	0.3312

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	47	1.01 1.7	0.0	B2M3F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.76	-0.02	-0.5352	0.5803	0.0401	-0.0611	0.0100	0.2882	-1.0843	
2	-2.49	-0.03	-0.4779	0.5031	-0.0097	-0.0934	0.0060	0.2946	-1.0527	
3	-1.89	-0.04	-0.3629	0.3760	0.0537	-0.0922	0.0100	0.2901	-1.0363	
4	-1.33	-0.07	-0.2571	0.2639	-0.0793	-0.1520	0.0080	0.2969	-1.0266	
5	-0.75	-0.02	-0.1581	0.1443	0.0423	-0.0532	0.0090	0.3054	-0.9130	
6	-0.22	-0.01	-0.0695	0.0813	0.0924	-0.0134	0.0040	0.3130	-1.1698	
7	0.32	-0.02	0.0174	0.0406	0.0542	-0.0935	0.0050	0.3187	2.3356	
8	0.84	0.0	0.1108	-0.0481	0.1140	0.0084	0.0020	0.3067	-0.4343	
9	1.37	-0.02	0.1960	-0.1044	0.0344	-0.0452	0.0090	0.2997	-0.5327	
10	1.87	-0.01	0.2803	-0.2014	0.0644	-0.0302	0.0050	0.3048	-0.7186	
11	2.35	-0.02	0.4012	-0.3418	0.0729	-0.1130	0.0010	0.3006	-0.8518	
12	2.85	-0.04	0.4969	-0.4437	0.0350	-0.0550	0.0050	0.3052	-0.8930	
13	3.31	-0.02	0.5791	-0.5608	0.1289	-0.0884	0.0090	0.3061	-0.9684	
14	3.78	-0.03	0.6713	-0.6999	0.0645	-0.0693	0.0070	0.3095	-1.0425	
15	4.22	-0.05	0.8007	-0.8680	0.0168	-0.1235	0.0060	0.3078	-1.0841	
16	4.70	-0.05	0.9064	-1.0240	-0.0163	-0.0552	0.0080	0.3138	-1.1352	
17	5.14	-0.04	0.9879	-1.1500	0.0184	-0.0038	0.0050	0.3133	-1.1642	
18	5.62	-0.04	1.1117	-1.3303	0.0315	0.0689	0.0100	0.3193	-1.1967	
19	6.05	-0.04	1.2149	-1.4679	0.0928	-0.0769	0.0100	0.3181	-1.2082	
20	6.53	-0.05	1.3581	-1.6744	0.0499	-0.0469	0.0110	0.3118	-1.2329	
21	6.98	-0.06	1.4394	-1.8202	0.0036	-0.0590	0.0100	0.3151	-1.2645	
22	7.44	-0.06	1.5654	-1.9896	0.0235	-0.0189	0.0120	0.3150	-1.2710	
23	7.86	-0.07	1.6816	-2.1442	0.0153	0.0096	0.0100	0.3148	-1.2751	
24	8.29	-0.04	1.7493	-2.2850	0.0763	-0.0248	0.0080	0.3124	-1.3063	
25	8.73	-0.08	1.8737	-2.4831	-0.0048	-0.0503	0.0140	0.3154	-1.3253	
26	9.12	-0.02	1.9695	-2.6164	0.0351	0.0005	0.0120	0.3172	-1.3284	
27	9.53	-0.06	2.0681	-2.7684	-0.0561	-0.0205	0.0120	0.3145	-1.3386	
28	9.95	-0.07	2.2005	-2.9767	-0.0098	0.0077	0.0120	0.3072	-1.3537	
29	10.36	-0.08	2.3310	-3.2004	-0.0416	-0.0318	0.0130	0.2911	-1.3730	
30	10.77	-0.02	2.4215	-3.3461	0.0588	-0.0853	0.0150	0.2707	-1.3818	
31	11.18	-0.05	2.5562	-3.5666	0.0437	-0.0162	0.0160	0.2612	-1.3953	
32	11.54	-0.08	2.6507	-3.6779	0.1096	-0.0164	0.0140	0.2377	-1.3876	
33	11.91	-0.06	2.7498	-3.8498	0.0575	-0.0285	0.0130	0.2106	-1.4000	
34	12.26	-0.06	2.8585	-4.0959	0.0149	-0.0249	0.0190	0.2188	-1.4343	
35	12.63	-0.05	2.9744	-4.2462	0.0406	0.0292	0.0100	0.2227	-1.4276	
36	12.98	-0.05	3.1049	-4.3918	0.0798	0.0383	0.0120	0.2267	-1.4145	
37	13.36	-0.07	3.2309	-4.5192	-0.0236	0.0420	0.0170	0.2433	-1.3988	
38	13.70	-0.07	3.3368	-4.7155	-0.0068	-0.0145	0.0220	0.2553	-1.4132	
39	14.05	-0.07	3.4550	-4.7791	-0.0402	-0.0137	0.0170	0.2639	-1.3832	
40	14.42	-0.07	3.5629	-4.9301	-0.0789	-0.0125	0.0180	0.2667	-1.3837	
41	14.79	-0.08	3.6518	-4.9756	-0.0784	-0.0012	0.0220	0.2632	-1.3625	
42	15.14	-0.08	3.7510	-5.1534	-0.0362	-0.0033	0.0160	0.2596	-1.3739	
43	15.49	-0.07	3.8341	-5.3047	-0.0144	0.1101	0.0160	0.2578	-1.3836	
44	15.81	-0.08	3.9407	-5.4260	-0.0711	0.0235	0.0100	0.2519	-1.3769	
45	16.15	-0.08	4.0556	-5.5948	-0.1079	0.1760	0.0120	0.2432	-1.3795	
46	16.47	-0.09	4.1609	-5.7712	-0.1466	0.1142	0.0120	0.2305	-1.3870	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	47	1.01 1.7	0.0	B2WJF12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.82	-0.08	4.2617	-5.9424	-0.1464	0.1889	0.0130	0.2260	-1.3944	
48	17.14	-0.08	4.3859	-6.1423	-0.0565	0.1951	0.0150	0.2162	-1.4005	
49	17.46	-0.08	4.4755	-6.2877	-0.0663	0.1248	0.0070	0.2094	-1.4049	
50	17.79	-0.07	4.6124	-6.4274	-0.0172	0.0851	-0.0020	0.2004	-1.3935	
51	18.12	-0.09	4.7128	-6.5849	-0.1607	0.1780	0.0050	0.1914	-1.3972	
52	18.45	-0.08	4.7897	-6.7345	-0.1049	0.1408	-0.0060	0.1861	-1.4061	
53	18.79	-0.07	4.9362	-6.8316	-0.0579	0.2850	-0.0090	0.1979	-1.3840	
54	19.14	-0.08	5.0131	-6.9244	-0.1331	0.2223	-0.0080	0.1931	-1.3813	
55	19.45	-0.08	5.1480	-6.9873	-0.0667	0.1724	-0.0120	0.2072	-1.3573	
56	19.78	-0.08	5.2168	-7.0086	-0.0933	0.2306	-0.0130	0.2045	-1.3435	
57	20.12	-0.08	5.3345	-7.1233	-0.0775	0.2115	-0.0250	0.2064	-1.3353	
58	20.48	-0.08	5.4372	-7.1641	-0.0820	0.2108	-0.0160	0.2024	-1.3176	
59	20.81	-0.08	5.5071	-7.1950	-0.0050	0.2640	-0.0130	0.1913	-1.3065	
60	21.16	-0.09	5.6223	-7.3372	-0.0646	0.2374	-0.0290	0.1887	-1.3050	
61	21.47	-0.08	5.6775	-7.4005	-0.0196	0.1614	-0.0270	0.1818	-1.3049	
62	21.80	-0.10	5.7989	-7.5136	-0.1175	0.1535	-0.0220	0.1697	-1.2957	
63	22.11	-0.08	5.8975	-7.5866	-0.0209	0.0802	-0.0170	0.1529	-1.2864	
64	22.42	-0.09	5.9847	-7.6407	-0.0473	0.1752	-0.0210	0.1405	-1.2767	
65	22.73	-0.09	6.1254	-7.7697	-0.0187	0.1752	-0.0250	0.1384	-1.2684	
66	23.05	-0.09	6.2376	-7.8347	-0.0386	0.1360	-0.0170	0.1246	-1.2561	
67	23.39	-0.09	6.3920	-7.8189	-0.0464	0.1799	-0.0190	0.1144	-1.2232	
68	23.69	-0.10	6.4900	-7.8991	-0.0581	0.1603	-0.0130	0.1095	-1.2171	
69	24.01	-0.09	6.6034	-7.8630	-0.0590	0.2086	-0.0230	0.1146	-1.1907	
70	24.36	-0.08	6.7151	-7.8404	-0.0322	0.1759	-0.0250	0.1175	-1.1676	
71	24.68	-0.09	6.8101	-7.8824	-0.0514	0.2199	-0.0240	0.1243	-1.1575	
72	25.01	-0.09	6.9668	-7.8128	-0.1086	0.3220	-0.0270	0.1277	-1.1214	
73	25.31	-0.09	7.0096	-7.8527	-0.0250	0.1750	-0.0310	0.1273	-1.1203	
74	25.61	-0.11	7.1577	-7.7760	-0.1702	0.3792	-0.0290	0.1346	-1.0867	
75	25.92	-0.11	7.2369	-7.7889	-0.1364	0.4629	-0.0280	0.1285	-1.0763	
76	26.23	-0.10	7.3616	-7.8216	-0.0562	0.3256	-0.0290	0.1274	-1.0625	
77	26.54	-0.10	7.4875	-7.7589	-0.2327	0.7507	-0.0310	0.1214	-1.0362	
78	26.84	-0.11	7.5963	-7.8102	-0.1724	0.4563	-0.0510	0.1062	-1.0282	
79	27.15	-0.11	7.7025	-7.8174	-0.2498	0.7516	-0.0440	0.1011	-1.0149	
80	27.47	-0.10	7.8359	-7.8566	-0.0919	0.4126	-0.0480	0.0905	-1.0026	
81	27.76	-0.11	7.9232	-7.9538	-0.2592	0.7068	-0.0480	0.0812	-1.0039	
82	28.06	-0.10	8.0312	-7.9510	-0.2376	0.7435	-0.0310	0.0728	-0.9930	
83	28.36	-0.10	8.1107	-7.9865	-0.0761	0.3385	-0.0500	0.0687	-0.9839	
84	28.65	-0.09	8.2578	-8.0354	-0.1586	0.7319	-0.0480	0.0652	-0.9731	
85	28.97	-0.12	8.3440	-8.0451	-0.2162	0.4986	-0.0550	0.0484	-0.9642	
86	29.31	-0.12	8.5266	-8.0557	-0.3131	0.7392	-0.0620	0.0537	-0.9448	
87	29.63	-0.11	8.6395	-8.0378	-0.0120	0.1088	-0.0560	0.0346	-0.9304	
88	29.94	-0.11	8.6689	-7.9920	-0.0725	0.2450	-0.0620	0.0374	-0.9219	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	OEL3	DEL4	TRANSITION		
6	57	1.01	1.7	0.0	82W3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNFI	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	-2.76	-0.02	-0.0063	0.0009	-0.0186	-0.1508	2.9523	-0.1473	0.0101	-0.0476	-0.0689	0.3230
2	-2.49	-0.03	-0.0151	0.0011	-0.0176	-0.0728	1.1677	-0.1314	0.0088	-0.0392	-0.0673	0.2982
3	-1.89	-0.04	-0.0093	0.0010	-0.0183	-0.1124	1.9676	-0.1103	0.0070	-0.0287	-0.0639	0.2607
4	-1.33	-0.07	0.0040	0.0008	-0.0198	0.2000	-4.9418	-0.0870	0.0048	-0.0161	-0.0557	0.1849
5	-0.15	-0.02	-0.0150	0.0010	-0.0177	-0.0700	1.1799	-0.0620	0.0024	-0.0068	-0.0387	0.0768
6	-0.22	-0.01	-0.0004	0.0008	-0.0192	-2.1246	48.0632	-0.0442	0.0006	0.0018	-0.0147	-0.0401
7	0.32	-0.02	0.0113	0.0007	-0.0205	0.0619	-1.8172	-0.0334	-0.0010	0.0095	0.0314	-0.2836
8	0.84	0.0	0.0098	0.0007	-0.0203	0.0765	-2.0749	-0.0118	-0.0029	0.0181	0.2457	-1.5312
9	1.37	-0.02	0.0185	0.0006	-0.0213	0.0351	-1.1533	0.0020	-0.0041	0.0246	-2.0496	12.2832
10	1.87	-0.01	0.0054	0.0007	-0.0197	0.1389	-3.6483	0.0203	-0.0061	0.0352	-0.3004	1.7322
11	2.35	-0.02	0.0054	0.0008	-0.0198	0.1481	-3.6668	0.0503	-0.0085	0.0485	-0.1690	0.9634
12	2.85	-0.04	0.0053	0.0008	-0.0197	0.1603	-3.7234	0.0665	-0.0096	0.0559	-0.1443	0.8415
13	3.31	-0.02	0.0053	0.0008	-0.0197	0.1603	-3.7234	0.0880	-0.0107	0.0633	-0.1216	0.7196
14	3.78	-0.03	0.0184	0.0006	-0.0212	0.0353	-1.1505	0.1078	-0.0115	0.0724	-0.1071	0.6718
15	4.22	-0.05	0.0097	0.0007	-0.0203	0.0773	-2.0895	0.1318	-0.0121	0.0823	-0.0922	0.6246
16	4.70	-0.05	0.0184	0.0006	-0.0213	0.0353	-1.1559	0.1569	-0.0122	0.0916	-0.0781	0.5837
17	5.14	-0.04	0.0112	0.0007	-0.0205	0.0670	-1.8275	0.1760	-0.0124	0.0975	-0.0707	0.5542
18	5.62	-0.04	0.0111	0.0007	-0.0204	0.0676	-1.8380	0.2032	-0.0119	0.1100	-0.0588	0.5414
19	6.05	-0.04	0.0141	0.0007	-0.0207	0.0496	-1.4682	0.2204	-0.0117	0.1179	-0.0533	0.5351
20	6.53	-0.05	0.0112	0.0007	-0.0204	0.0625	-1.8186	0.2392	-0.0114	0.1250	-0.0477	0.5226
21	6.98	-0.06	0.0112	0.0007	-0.0204	0.0625	-1.8186	0.2608	-0.0118	0.1337	-0.0452	0.5127
22	7.44	-0.06	0.0054	0.0007	-0.0198	0.1389	-3.6668	0.2900	-0.0115	0.1434	-0.0398	0.4945
23	7.86	-0.07	0.0184	0.0006	-0.0212	0.0353	-1.1505	0.3062	-0.0118	0.1505	-0.0387	0.4916
24	8.29	-0.04	0.0054	0.0008	-0.0198	0.1481	-3.6668	0.3288	-0.0119	0.1598	-0.0362	0.4858
25	8.73	-0.08	0.0186	0.0005	-0.0213	0.0296	-1.1453	0.3548	-0.0123	0.1664	-0.0347	0.4690
26	9.12	-0.02	0.0098	0.0007	-0.0203	0.0765	-2.0749	0.3770	-0.0128	0.1737	-0.0339	0.4608
27	9.53	-0.06	0.0055	0.0007	-0.0199	0.1363	-3.6122	0.3972	-0.0128	0.1827	-0.0323	0.4598
28	9.95	-0.07	0.0202	0.0005	-0.0216	0.0247	-1.0678	0.4155	-0.0129	0.1890	-0.0312	0.4550
29	10.36	-0.08	0.0114	0.0007	-0.0207	0.0614	-1.8159	0.4387	-0.0132	0.1959	-0.0301	0.4465
30	10.77	-0.02	-0.0108	0.0010	-0.0183	-0.0972	1.6943	0.4617	-0.0129	0.2045	-0.0280	0.4430
31	11.18	-0.05	-0.0049	0.0009	-0.0185	-0.1538	3.8638	0.4808	-0.0126	0.2111	-0.0262	0.4391
32	11.54	-0.08	-0.0034	0.0009	-0.0192	-0.2744	5.6567	0.5027	-0.0119	0.2167	-0.0238	0.4311
33	11.91	-0.06	0.0249	0.0005	-0.0224	0.0201	-0.8997	0.5179	-0.0109	0.2229	-0.0210	0.4303
34	12.26	-0.06	0.0265	0.0005	-0.0227	0.0189	-0.8555	0.5428	-0.0107	0.2304	-0.0198	0.4244
35	12.63	-0.05	0.0295	0.0004	-0.0231	0.0153	-0.7420	0.5644	-0.0107	0.2366	-0.0190	0.4191
36	12.98	-0.05	0.0294	0.0005	-0.0230	0.0170	-0.7324	0.5804	-0.0108	0.2412	-0.0186	0.4156
37	13.36	-0.07	0.0295	0.0004	-0.0231	0.0153	-0.7620	0.6048	-0.0113	0.2459	-0.0187	0.4066
38	13.70	-0.07	0.0444	0.0002	-0.0247	0.0045	-0.5564	0.6231	-0.0118	0.2509	-0.0190	0.4027
39	14.05	-0.07	0.0339	0.0004	-0.0235	0.0118	-0.6933	0.6345	-0.0124	0.2550	-0.0145	0.4019
40	14.42	-0.07	0.0338	0.0004	-0.0234	0.0133	-0.6934	0.6516	-0.0129	0.2594	-0.0199	0.3989
41	14.79	-0.08	0.0648	-0.0000	-0.0268	-0.0008	-0.4137	0.6609	-0.0129	0.2613	-0.0196	0.3954
42	15.14	-0.08	0.0543	0.0001	-0.0256	0.0028	-0.4716	0.6832	-0.0130	0.2676	-0.0190	0.3918
43	15.49	-0.07	0.0883	-0.0004	-0.0294	-0.0051	-0.3327	0.6997	-0.0129	0.2701	-0.0184	0.3861
44	15.81	-0.08	0.0926	-0.0004	-0.0298	-0.0049	-0.3223	0.7113	-0.0130	0.2749	-0.0183	0.3865
45	16.15	-0.08	0.1088	-0.0008	-0.0316	-0.0074	-0.2909	0.7313	-0.0124	0.2808	-0.0170	0.3839
46	16.47	-0.09	0.1221	-0.0009	-0.0331	-0.0074	-0.2712	0.7565	-0.0121	0.2851	-0.0160	0.3768

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 47 1.01 1.7 0.0 B2W3F12 16.750 0 0 0 0 FIXEO												
POINT	ALPHA	BETA	CNF1	CHI	L81	XCPF1	YCPF1	CNF2	CHI2	C82	XCPF2	YCPF2
47	16.82	-0.08	0.1088	-0.0008	-0.0316	-0.0074	-0.2909	0.7725	-0.0114	0.2895	-0.0148	0.3748
48	17.14	-0.08	0.1090	-0.0007	-0.0317	-0.0069	-0.2906	0.7998	-0.0108	0.2966	-0.0136	0.3708
49	17.46	-0.08	0.1122	-0.0008	-0.0321	-0.0071	-0.2862	0.8153	-0.0099	0.3027	-0.0121	0.3714
50	17.79	-0.07	0.1245	-0.0010	-0.0336	-0.0080	-0.2700	0.8433	-0.0091	0.3085	-0.0108	0.3658
51	18.12	-0.09	0.1245	-0.0010	-0.0336	-0.0080	-0.2700	0.8576	-0.0089	0.3141	-0.0104	0.3662
52	18.45	-0.08	0.1438	-0.0013	-0.0358	-0.0090	-0.2488	0.8752	-0.0082	0.3184	-0.0094	0.3638
53	18.79	-0.07	0.1544	-0.0015	-0.0369	-0.0100	-0.2393	0.8964	-0.0080	0.3230	-0.0090	0.3603
54	19.14	-0.08	0.1393	-0.0012	-0.0353	-0.0086	-0.2553	0.9113	-0.0080	0.3264	-0.0088	0.3581
55	19.45	-0.08	0.1688	-0.0017	-0.0385	-0.0101	-0.2284	0.9278	-0.0087	0.3294	-0.0094	0.3550
56	19.78	-0.06	0.1892	-0.0020	-0.0407	-0.0106	-0.2154	0.9401	-0.0084	0.3310	-0.0090	0.3520
57	20.12	-0.08	0.1974	-0.0022	-0.0416	-0.0111	-0.2109	0.9520	-0.0085	0.3348	-0.0089	0.3517
58	20.48	-0.08	0.1821	-0.0019	-0.0399	-0.0104	-0.2192	0.9624	-0.0086	0.3385	-0.0089	0.3517
59	20.81	-0.08	0.1758	-0.0019	-0.0391	-0.0108	-0.2225	0.9655	-0.0093	0.3383	-0.0097	0.3504
60	21.16	-0.09	0.2109	-0.0024	-0.0436	-0.0116	-0.2040	0.9860	-0.0080	0.3422	-0.0082	0.3470
61	21.47	-0.08	0.2004	-0.0022	-0.0418	-0.0110	-0.2087	0.9929	-0.0079	0.3460	-0.0080	0.3484
62	21.80	-0.10	0.2032	-0.0022	-0.0422	-0.0111	-0.2076	1.0044	-0.0083	0.3476	-0.0083	0.3461
63	22.11	-0.08	0.1711	-0.0017	-0.0385	-0.0102	-0.2249	1.0101	-0.0084	0.3510	-0.0083	0.3475
64	22.42	-0.09	0.1711	-0.0017	-0.0386	-0.0099	-0.2255	1.0183	-0.0087	0.3528	-0.0086	0.3465
65	22.73	-0.09	0.1968	-0.0022	-0.0415	-0.0112	-0.2110	1.0390	-0.0082	0.3579	-0.0079	0.3445
66	23.05	-0.09	0.1572	-0.0015	-0.0370	-0.0095	-0.2355	1.0466	-0.0086	0.3613	-0.0082	0.3453
67	23.39	-0.09	0.1589	-0.0015	-0.0372	-0.0098	-0.2344	1.0546	-0.0093	0.3628	-0.0088	0.3440
68	23.69	-0.10	0.1533	-0.0015	-0.0361	-0.0101	-0.2395	1.0666	-0.0094	0.3675	-0.0088	0.3446
69	24.01	-0.09	0.1975	-0.0022	-0.0417	-0.0111	-0.2111	1.0705	-0.0096	0.3690	-0.0090	0.3447
70	24.36	-0.08	0.1679	-0.0017	-0.0382	-0.0104	-0.2278	1.0740	-0.0106	0.3696	-0.0099	0.3441
71	24.68	-0.09	0.1917	-0.0021	-0.0410	-0.0112	-0.2140	1.0738	-0.0116	0.3683	-0.0108	0.3430
72	25.01	-0.09	0.2174	-0.0026	-0.0434	-0.0122	-0.2017	1.0707	-0.0126	0.3668	-0.0118	0.3426
73	25.31	-0.09	0.2112	-0.0025	-0.0430	-0.0118	-0.2037	1.0831	-0.0127	0.3683	-0.0117	0.3400
74	25.61	-0.11	0.2237	-0.0028	-0.0445	-0.0125	-0.1987	1.0741	-0.0155	0.3660	-0.0144	0.3408
75	25.92	-0.11	0.2146	-0.0026	-0.0434	-0.0121	-0.2022	1.0804	-0.0149	0.3694	-0.0138	0.3419
76	26.23	-0.10	0.1939	-0.0022	-0.0410	-0.0113	-0.2114	1.0982	-0.0151	0.3719	-0.0138	0.3387
77	26.54	-0.10	0.2392	-0.0031	-0.0461	-0.0130	-0.1927	1.0950	-0.0151	0.3721	-0.0138	0.3398
78	26.84	-0.11	0.2581	-0.0033	-0.0482	-0.0130	-0.1867	1.1110	-0.0144	0.3747	-0.0130	0.3373
79	27.15	-0.11	0.2452	-0.0033	-0.0468	-0.0135	-0.1908	1.1095	-0.0153	0.3759	-0.0138	0.3388
80	27.47	-0.10	0.3034	-0.0041	-0.0534	-0.0135	-0.1758	1.1231	-0.0140	0.3779	-0.0125	0.3365
81	27.76	-0.11	0.2977	-0.0041	-0.0527	-0.0138	-0.1769	1.1324	-0.0134	0.3798	-0.0118	0.3354
82	28.06	-0.10	0.2964	-0.0040	-0.0525	-0.0135	-0.1771	1.1456	-0.0133	0.3825	-0.0116	0.3339
83	28.36	-0.10	0.3037	-0.0039	-0.0535	-0.0130	-0.1760	1.1590	-0.0123	0.3862	-0.0107	0.3332
84	28.65	-0.09	0.3113	-0.0043	-0.0542	-0.0138	-0.1742	1.1619	-0.0129	0.3870	-0.0111	0.3330
85	28.97	-0.12	0.2861	-0.0036	-0.0514	-0.0128	-0.1797	1.1942	-0.0084	0.3937	-0.0070	0.3297
86	29.31	-0.12	0.3023	-0.0040	-0.0532	-0.0132	-0.1760	1.1984	-0.0085	0.3936	-0.0071	0.3285
87	29.63	-0.11	0.2743	-0.0033	-0.0502	-0.0122	-0.1828	1.2140	-0.0057	0.3965	-0.0047	0.3266
88	29.94	-0.11	0.3119	-0.0040	-0.0543	-0.0128	-0.1742	1.2168	-0.0061	0.3956	-0.0050	0.3251

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		47		1.01 1.7		0.0 82W3F12		16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	C83	XLPF3	YLPF3	CNF4	CH4	C84	XLPF4	YCPF4	
1	-2.76	-0.02	0.0628	-0.0021	-0.0044	-0.0334	-0.0697	-0.1677	0.0033	-0.0372	-0.0498	0.2217	
2	-2.49	-0.03	0.0629	-0.0021	-0.0043	-0.0334	-0.0690	-0.1545	0.0078	-0.0335	-0.0505	0.2167	
3	-1.89	-0.04	0.0629	-0.0022	-0.0044	-0.0350	-0.0706	-0.1193	0.0060	-0.0238	-0.0507	0.1999	
4	-1.33	-0.07	0.0556	-0.0022	-0.0036	-0.0396	-0.0643	-0.0893	0.0042	-0.0142	-0.0470	0.1585	
5	-0.75	-0.02	0.0656	-0.0025	-0.0033	-0.0381	-0.0509	-0.0518	0.0018	-0.0041	-0.0347	0.0784	
6	-0.22	-0.01	0.0612	-0.0026	-0.0015	-0.0425	-0.0246	-0.0304	0.0	0.0026	0.0	-0.0845	
7	0.32	-0.02	0.0609	-0.0029	-0.0015	-0.0476	-0.0247	-0.0101	-0.0020	0.0112	0.2029	-1.1123	
8	0.84	0.0	0.0717	-0.0029	-0.0027	-0.0404	-0.0378	0.0167	-0.0037	0.0178	-0.2245	1.0638	
9	1.37	-0.02	0.0609	-0.0026	-0.0015	-0.0427	-0.0247	0.0405	-0.0056	0.0282	-0.1395	0.6962	
10	1.87	-0.01	0.0631	-0.0029	0.0002	-0.0467	0.0036	0.0652	-0.0071	0.0350	-0.1089	0.5372	
11	2.35	-0.02	0.0688	-0.0031	0.0022	-0.0458	0.0323	0.0938	-0.0089	0.0462	-0.0949	0.4931	
12	2.85	-0.04	0.0677	-0.0030	0.0044	-0.0450	0.0644	0.1205	-0.0101	0.0556	-0.0842	0.4618	
13	3.31	-0.02	0.0727	-0.0029	0.0010	-0.0406	0.0141	0.1426	-0.0111	0.0641	-0.0778	0.4496	
14	3.78	-0.03	0.0675	-0.0031	0.0043	-0.0459	0.0636	0.1670	-0.0119	0.0745	-0.0715	0.4464	
15	4.22	-0.05	0.0713	-0.0030	0.0039	-0.0421	0.0541	0.1927	-0.0124	0.0839	-0.0646	0.4354	
16	4.70	-0.05	0.0809	-0.0031	0.0048	-0.0383	0.0588	0.2232	-0.0124	0.0953	-0.0555	0.4269	
17	5.14	-0.04	0.0810	-0.0028	0.0048	-0.0346	0.0591	0.2361	-0.0119	0.1002	-0.0506	0.4243	
18	5.62	-0.04	0.0813	-0.0030	0.0041	-0.0369	0.0503	0.2706	-0.0120	0.1124	-0.0445	0.4156	
19	6.05	-0.04	0.0690	-0.0031	0.0082	-0.0449	0.1187	0.2545	-0.0119	0.1218	-0.0404	0.4137	
20	6.53	-0.05	0.0835	-0.0029	0.0064	-0.0347	0.0769	0.3160	-0.0117	0.1313	-0.0372	0.4155	
21	6.98	-0.06	0.0800	-0.0028	0.0064	-0.0350	0.0857	0.3390	-0.0121	0.1385	-0.0358	0.4084	
22	7.44	-0.06	0.0801	-0.0025	0.0069	-0.0312	0.0860	0.3656	-0.0119	0.1486	-0.0325	0.4065	
23	7.86	-0.07	0.0812	-0.0025	0.0066	-0.0308	0.0586	0.3832	-0.0122	0.1547	-0.0320	0.4037	
24	8.29	-0.04	0.0894	-0.0024	0.0085	-0.0274	0.0350	0.4059	-0.0122	0.1655	-0.0302	0.4076	
25	8.73	-0.08	0.0899	-0.0020	0.0085	-0.0222	0.0341	0.4361	-0.0126	0.1749	-0.0289	0.4011	
26	9.12	-0.02	0.0906	-0.0025	0.0071	-0.0276	0.0782	0.4523	-0.0132	0.1793	-0.0292	0.3964	
27	9.53	-0.06	0.0843	-0.0020	0.0065	-0.0237	0.0770	0.4745	-0.0131	0.1859	-0.0276	0.3918	
28	9.95	-0.07	0.0904	-0.0020	0.0085	-0.0221	0.0743	0.5034	-0.0131	0.1950	-0.0260	0.3874	
29	10.36	-0.08	0.0906	-0.0020	0.0085	-0.0221	0.0737	0.5227	-0.0130	0.2026	-0.0250	0.3875	
30	10.77	-0.02	0.1021	-0.0019	0.0073	-0.0186	0.0717	0.5435	-0.0126	0.2095	-0.0232	0.3855	
31	11.18	-0.05	0.0915	-0.0015	0.0086	-0.0164	0.0939	0.5719	-0.0126	0.2189	-0.0221	0.3827	
32	11.54	-0.08	0.1056	-0.0014	0.0083	-0.0133	0.0705	0.5857	-0.0114	0.2235	-0.0195	0.3815	
33	11.91	-0.06	0.1046	-0.0015	0.0113	-0.0143	0.1076	0.6060	-0.0110	0.2340	-0.0182	0.3862	
34	12.26	-0.06	0.1032	-0.0019	0.0074	-0.0184	0.0716	0.6343	-0.0115	0.2418	-0.0181	0.3813	
35	12.63	-0.05	0.1048	-0.0018	0.0113	-0.0172	0.1080	0.6513	-0.0108	0.2463	-0.0166	0.3782	
36	12.98	-0.05	0.1012	-0.0017	0.0117	-0.0168	0.1158	0.6723	-0.0107	0.2539	-0.0160	0.3777	
37	13.36	-0.07	0.0975	-0.0016	0.0121	-0.0164	0.1240	0.6962	-0.0109	0.2612	-0.0157	0.3752	
38	13.70	-0.07	0.1048	-0.0015	0.0113	-0.0143	0.1080	0.7219	-0.0115	0.2667	-0.0160	0.3695	
39	14.05	-0.07	0.1050	-0.0008	0.0112	-0.0081	0.1065	0.7333	-0.0113	0.2712	-0.0155	0.3699	
40	14.42	-0.07	0.1032	-0.0010	0.0141	-0.0102	0.1365	0.7518	-0.0114	0.2753	-0.0152	0.3662	
41	14.79	-0.08	0.1026	-0.0014	0.0141	-0.0141	0.1373	0.7672	-0.0116	0.2812	-0.0152	0.3666	
42	15.14	-0.08	0.1108	-0.0014	0.0110	-0.0131	0.0995	0.7840	-0.0111	0.2832	-0.0142	0.3613	
43	15.49	-0.07	0.1021	-0.0017	0.0140	-0.0171	0.1373	0.8140	-0.0114	0.2921	-0.0141	0.3589	
44	15.81	-0.08	0.1108	-0.0018	0.0171	-0.0162	0.1545	0.8255	-0.0116	0.2940	-0.0141	0.3561	
45	16.15	-0.08	0.1122	-0.0018	0.0142	-0.0165	0.1264	0.8507	-0.0113	0.3026	-0.0133	0.3557	
46	16.47	-0.09	0.1050	-0.0017	0.0151	-0.0167	0.1437	0.8625	-0.0113	0.3079	-0.0132	0.3570	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 47 1.01 1.7				0.0	B2W3F12	16.750	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	LB4	XC PF4	YCPF4
47	16.82	-0.08	0.1121	-0.0020	0.0143	-0.0183	0.1271	0.8854	-0.0109	0.3134	-0.0123	0.3540
48	17.14	-0.08	0.1052	-0.0018	0.0151	-0.0176	0.1431	0.9067	-0.0104	0.3200	-0.0115	0.3530
49	17.46	-0.08	0.1179	-0.0014	0.0177	-0.0119	0.1500	0.9240	-0.0103	0.3249	-0.0111	0.3516
50	17.79	-0.07	0.1176	-0.0014	0.0192	-0.0119	0.1631	0.9430	-0.0096	0.3311	-0.0102	0.3511
51	18.12	-0.09	0.1132	-0.0013	0.0143	-0.0119	0.1265	0.9586	-0.0093	0.3348	-0.0097	0.3493
52	18.45	-0.08	0.1153	-0.0017	0.0167	-0.0152	0.1450	0.9746	-0.0090	0.3395	-0.0093	0.3483
53	18.79	-0.07	0.1268	-0.0008	0.0154	-0.0063	0.1219	0.9940	-0.0089	0.3454	-0.0090	0.3475
54	19.14	-0.08	0.1222	-0.0008	0.0173	-0.0065	0.1417	1.0055	-0.0085	0.3494	-0.0085	0.3474
55	19.45	-0.08	0.1216	0.0	0.0187	0.0	0.1539	1.0274	-0.0088	0.3522	-0.0086	0.3428
56	19.78	-0.08	0.1264	-0.0007	0.0153	-0.0055	0.1212	1.0343	-0.0087	0.3552	-0.0085	0.3435
57	20.12	-0.08	0.1234	-0.0003	0.0203	-0.0028	0.1647	1.0467	-0.0083	0.3580	-0.0079	0.3420
58	20.48	-0.08	0.1271	-0.0002	0.0191	-0.0020	0.1507	1.0590	-0.0077	0.3602	-0.0073	0.3401
59	20.81	-0.08	0.1255	0.0001	0.0218	0.0012	0.1739	1.0690	-0.0069	0.3657	-0.0065	0.3421
60	21.16	-0.09	0.1326	0.0000	0.0210	0.0004	0.1583	1.0815	-0.0067	0.3684	-0.0062	0.3406
61	21.47	-0.08	0.1383	0.0001	0.0231	0.0007	0.1669	1.0876	-0.0072	0.3698	-0.0067	0.3400
62	21.80	-0.10	0.1395	0.0004	0.0209	0.0032	0.1497	1.1033	-0.0067	0.3732	-0.0061	0.3383
63	22.11	-0.08	0.1311	0.0001	0.0239	0.0011	0.1822	1.1055	-0.0072	0.3759	-0.0065	0.3400
64	22.42	-0.09	0.1290	-0.0001	0.0215	-0.0012	0.1665	1.1182	-0.0066	0.3800	-0.0059	0.3398
65	22.73	-0.09	0.1440	0.0003	0.0199	0.0024	0.1581	1.1365	-0.0066	0.3846	-0.0058	0.3384
66	23.05	-0.09	0.1428	0.0007	0.0227	0.0049	0.1588	1.1442	-0.0063	0.3881	-0.0055	0.3392
67	23.39	-0.09	0.1406	0.0010	0.0209	0.0075	0.1490	1.1585	-0.0059	0.3912	-0.0051	0.3377
68	23.69	-0.10	0.1384	0.0004	0.0186	0.0033	0.1345	1.1675	-0.0058	0.3932	-0.0050	0.3368
69	24.01	-0.09	0.1337	0.0006	0.0211	0.0049	0.1582	1.1760	-0.0064	0.3943	-0.0055	0.3353
70	24.36	-0.08	0.1444	0.0012	0.0205	0.0083	0.1421	1.1810	-0.0064	0.3963	-0.0054	0.3356
71	24.68	-0.09	0.1443	0.0006	0.0206	0.0045	0.1426	1.1904	-0.0069	0.3965	-0.0058	0.3330
72	25.01	-0.09	0.1535	0.0007	0.0214	0.0046	0.1397	1.2028	-0.0064	0.3988	-0.0053	0.3316
73	25.31	-0.09	0.1453	0.0007	0.0236	0.0048	0.1625	1.2040	-0.0065	0.3997	-0.0054	0.3320
74	25.61	-0.11	0.1557	0.0008	0.0223	0.0051	0.1431	1.2213	-0.0056	0.4029	-0.0046	0.3299
75	25.92	-0.11	0.1428	0.0006	0.0204	0.0046	0.1427	1.2242	-0.0053	0.4042	-0.0043	0.3302
76	26.23	-0.10	0.1525	0.0008	0.0212	0.0052	0.1391	1.2235	-0.0058	0.4052	-0.0048	0.3312
77	26.54	-0.10	0.1418	0.0012	0.0224	0.0088	0.1583	1.2463	-0.0049	0.4086	-0.0040	0.3278
78	26.84	-0.11	0.1592	0.0016	0.0218	0.0100	0.1372	1.2506	-0.0049	0.4119	-0.0039	0.3294
79	27.15	-0.11	0.1443	0.0011	0.0175	0.0080	0.1212	1.2577	-0.0048	0.4137	-0.0039	0.3289
80	27.47	-0.10	0.1553	0.0016	0.0225	0.0103	0.1478	1.2657	-0.0050	0.4156	-0.0040	0.3284
81	27.76	-0.11	0.1525	0.0007	0.0212	0.0046	0.1391	1.2762	-0.0042	0.4200	-0.0033	0.3291
82	28.06	-0.10	0.1472	0.0015	0.0191	0.0105	0.1301	1.2853	-0.0039	0.4228	-0.0030	0.3289
83	28.36	-0.10	0.1597	0.0021	0.0218	0.0131	0.1366	1.2922	-0.0043	0.4257	-0.0034	0.3294
84	28.65	-0.09	0.1493	0.0012	0.0216	0.0080	0.1450	1.3012	-0.0031	0.4289	-0.0024	0.3296
85	28.97	-0.12	0.1600	0.0020	0.0211	0.0125	0.1320	1.3084	-0.0024	0.4303	-0.0018	0.3289
86	29.31	-0.12	0.1665	0.0020	0.0217	0.0120	0.1302	1.3137	-0.0019	0.4316	-0.0015	0.3286
87	29.63	-0.11	0.1584	0.0026	0.0246	0.0164	0.1552	1.3164	-0.0014	0.4328	-0.0011	0.3288
88	29.94	-0.11	0.1710	0.0020	0.0258	0.0120	0.1508	1.3196	0.0003	0.4329	0.0002	0.3281

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	48	1.05 1.7	0.0	B2M3F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.76	-0.06	-0.5286	0.5921	0.0454	-0.1715	0.0050	0.3268	-1.1201	
2	-2.76	-0.01	-0.5119	0.5827	0.0710	-0.0444	0.0050	0.3289	-1.1383	
3	-2.44	-0.06	-0.4631	0.5204	0.0486	-0.1010	0.0070	0.3276	-1.1237	
4	-1.85	-0.06	-0.3668	0.3755	0.0280	-0.0688	0.0050	0.3224	-1.0238	
5	-1.30	0.0	-0.2754	0.2785	0.0825	0.0075	0.0050	0.3354	-1.0115	
6	-0.72	-0.02	-0.1463	0.1508	0.0634	-0.0557	0.0040	0.3324	-1.0309	
7	-0.18	-0.02	-0.0522	0.0981	0.0251	-0.1101	0.0040	0.3371	-1.8789	
8	0.36	-0.02	-0.0082	0.0565	0.0108	0.0239	0.0020	0.3366	-6.8878	
9	0.88	-0.05	0.1185	-0.0219	-0.0144	-0.0688	0.0040	0.3392	-0.1848	
10	1.40	-0.02	0.1844	-0.1127	0.0717	-0.1224	0.0070	0.3479	-0.5985	
11	1.91	-0.01	0.2989	-0.2064	0.0815	-0.0491	0.0020	0.3466	-0.6407	
12	2.42	-0.01	0.3785	-0.3359	0.0513	-0.0488	0.0060	0.3472	-0.8980	
13	2.88	-0.01	0.4855	-0.4528	0.0641	-0.0587	0.0070	0.3434	-0.9325	
14	3.36	-0.03	0.5876	-0.6217	0.0847	-0.0546	0.0050	0.3389	-1.0580	
15	3.82	0.0	0.7035	-0.7569	0.1251	-0.0107	0.0060	0.3448	-1.0760	
16	4.26	-0.03	0.8069	-0.8937	0.0879	-0.0091	0.0070	0.3449	-1.1076	
17	4.72	-0.02	0.9291	-1.1127	0.0321	-0.0479	0.0020	0.3374	-1.1977	
18	5.17	-0.05	1.0080	-1.2212	0.0178	-0.0369	0.0060	0.3442	-1.2115	
19	5.66	-0.07	1.1563	-1.4179	-0.0089	-0.0685	0.0050	0.3442	-1.2262	
20	6.09	-0.06	1.2552	-1.5854	0.0068	-0.1235	0.0070	0.3475	-1.2630	
21	6.56	-0.05	1.3635	-1.7614	0.0095	-0.0578	0.0070	0.3491	-1.2922	
22	7.00	-0.03	1.4427	-1.9428	0.0635	0.0041	0.0070	0.3425	-1.3466	
23	7.46	-0.07	1.5470	-2.1358	0.0316	0.0218	0.0090	0.3424	-1.3806	
24	7.89	-0.07	1.6350	-2.2210	0.1534	-0.0578	0.0080	0.3432	-1.3584	
25	8.33	-0.06	1.7729	-2.4470	0.0918	-0.0315	0.0050	0.3438	-1.3803	
26	8.74	-0.02	1.8891	-2.6067	-0.0014	-0.1080	0.0070	0.3432	-1.3799	
27	9.15	-0.12	2.0018	-2.7736	0.0080	-0.1712	0.0100	0.3457	-1.3855	
28	9.55	-0.06	2.1123	-2.9792	0.0412	-0.0687	0.0080	0.3409	-1.4104	
29	9.96	-0.06	2.2067	-3.1174	0.0302	-0.0143	0.0070	0.3406	-1.4127	
30	10.37	-0.03	2.3462	-3.3357	0.0016	-0.1082	0.0100	0.3370	-1.4217	
31	10.79	-0.02	2.4297	-3.4325	0.0460	-0.0704	0.0100	0.3357	-1.4128	
32	11.21	-0.05	2.5795	-3.6382	-0.0884	-0.1102	0.0070	0.3277	-1.4105	
33	11.58	-0.04	2.6917	-3.8284	0.0875	-0.1085	0.0040	0.3268	-1.4225	
34	11.95	-0.07	2.7770	-3.9388	-0.0092	-0.0061	0.0060	0.3201	-1.4184	
35	12.31	-0.05	2.8525	-4.0835	0.0161	0.0545	0.0060	0.3206	-1.4315	
36	12.67	-0.06	2.9754	-4.2316	0.0400	-0.0720	0.0060	0.3142	-1.4222	
37	13.00	-0.07	3.1037	-4.4562	-0.0411	0.0285	0.0110	0.3118	-1.4358	
38	13.39	-0.06	3.1962	-4.5716	0.0322	-0.0591	0.0050	0.3092	-1.4303	
39	13.74	-0.08	3.3511	-4.7905	-0.0124	-0.0606	0.0110	0.3042	-1.4295	
40	14.10	-0.08	3.4069	-4.8566	-0.0664	0.0260	0.0070	0.3055	-1.4255	
41	14.44	-0.08	3.5515	-4.9881	-0.0247	-0.0114	0.0060	0.3042	-1.4045	
42	14.81	-0.07	3.6229	-5.1291	-0.0105	0.0717	0.0050	0.2997	-1.4157	
43	15.18	-0.09	3.7600	-5.2310	-0.1168	0.0415	0.0	0.3015	-1.3912	
44	15.53	-0.05	3.8514	-5.3440	0.0649	0.1141	0.0060	0.3017	-1.3875	
45	15.86	-0.07	3.9434	-5.4907	-0.0164	0.1339	0.0030	0.2972	-1.3924	
46	16.18	-0.07	3.9966	-5.6182	0.0027	0.0732	-0.0050	0.2972	-1.4058	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART				MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6				48		1.05 1.7		0.0	B2W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP						
47	16.52	-0.06	4.1242	-5.7008	0.0525	0.0835	-0.0050	0.2947	-1.3823						
48	16.85	-0.09	4.2066	-5.8223	-0.0487	0.0662	-0.0050	0.2898	-1.3841						
49	17.20	-0.09	4.3140	-5.9407	-0.0683	0.0206	-0.0060	0.2857	-1.3771						
50	17.52	-0.07	4.4409	-6.0843	-0.0618	0.2785	-0.0040	0.2824	-1.3701						
51	17.85	-0.07	4.5852	-6.3093	-0.0859	0.2552	0.0020	0.2749	-1.3760						
52	18.17	-0.07	4.6980	-6.4672	-0.0284	0.1547	-0.0070	0.2495	-1.3766						
53	18.52	-0.07	4.8085	-6.6259	-0.0284	0.1557	-0.0130	0.2352	-1.3780						
54	18.85	-0.07	4.9138	-6.7243	-0.0491	0.1817	-0.0190	0.2299	-1.3685						
55	19.17	-0.08	5.0088	-6.8514	-0.0620	0.1158	-0.0140	0.2257	-1.3679						
56	19.51	-0.07	5.1675	-7.0476	-0.0312	0.1327	-0.0170	0.2359	-1.3638						
57	19.83	-0.06	5.2479	-7.1351	0.0818	0.0445	-0.0240	0.2502	-1.3596						
58	20.18	-0.07	5.3768	-7.2056	0.0031	0.1386	-0.0190	0.2650	-1.3401						
59	20.51	-0.07	5.4015	-7.1661	-0.0431	0.1703	-0.0190	0.2640	-1.3267						
60	20.88	-0.11	5.5126	-7.1607	-0.1775	0.1485	-0.0290	0.2517	-1.2990						
61	21.22	-0.09	5.6221	-7.1800	-0.0957	0.2389	-0.0180	0.2469	-1.2771						
62	21.54	-0.09	5.6869	-7.2787	-0.0684	0.2367	-0.0290	0.2409	-1.2799						
63	21.87	-0.08	5.7813	-7.3080	-0.0601	0.2771	-0.0270	0.2422	-1.2641						
64	22.17	-0.09	5.8311	-7.4087	-0.0491	0.1817	-0.0300	0.2348	-1.2705						
65	22.46	-0.10	5.9413	-7.4960	-0.0888	0.1123	-0.0220	0.2367	-1.2617						
66	22.79	-0.09	6.0302	-7.5634	-0.0728	0.1559	-0.0200	0.2310	-1.2543						
67	23.10	-0.09	6.1461	-7.7306	-0.0492	0.1489	-0.0190	0.2170	-1.2578						
68	23.42	-0.08	6.2861	-7.7696	0.0360	0.1546	-0.0290	0.1936	-1.2360						
69	23.76	-0.09	6.4168	-7.6686	0.0193	0.1230	-0.0320	0.1770	-1.1951						
70	24.04	-0.09	6.4759	-7.7404	-0.0436	0.2090	-0.0200	0.1664	-1.1953						
71	24.42	-0.09	6.6590	-7.6269	-0.0635	0.2629	-0.0290	0.1585	-1.1453						
72	24.73	-0.09	6.7849	-7.7021	-0.0309	0.2622	-0.0270	0.1639	-1.1352						
73	25.05	-0.08	6.8944	-7.7934	-0.0258	0.2591	-0.0330	0.1709	-1.1304						
74	25.35	-0.09	7.0084	-7.8650	-0.0805	0.2997	-0.0340	0.1811	-1.1222						
75	25.67	-0.10	7.1365	-7.8943	-0.0912	0.2666	-0.0340	0.1882	-1.1062						
76	25.95	-0.09	7.2292	-7.8871	-0.1115	0.5880	-0.0350	0.1875	-1.0910						
77	26.26	-0.11	7.3004	-7.9289	-0.1371	0.3289	-0.0350	0.1821	-1.0861						
78	26.56	-0.11	7.4662	-7.9200	-0.1652	0.5212	-0.0440	0.1766	-1.0608						
79	26.87	-0.11	7.5077	-7.8861	-0.2325	0.6764	-0.0500	0.1726	-1.0504						
80	27.20	-0.10	7.6626	-7.8840	-0.1235	0.3679	-0.0610	0.1605	-1.0289						
81	27.50	-0.10	7.8160	-7.8878	-0.1244	0.5451	-0.0630	0.1523	-1.0092						
82	27.81	-0.11	7.8812	-7.9410	-0.1434	0.3297	-0.0670	0.1555	-1.0076						
83	28.09	-0.10	7.9689	-8.0338	-0.3333	1.0665	-0.0680	0.1580	-1.0082						
84	28.42	-0.09	8.1383	-7.9871	-0.0907	0.4489	-0.0670	0.1457	-0.9814						
85	28.72	-0.09	8.2142	-8.0114	-0.0499	0.6038	-0.0750	0.1419	-0.9753						
86	29.06	-0.10	8.3191	-7.9552	-0.0606	0.4088	-0.0650	0.1358	-0.9563						
87	29.36	-0.14	8.4359	-8.0367	-0.2068	0.1605	-0.0680	0.1206	-0.9527						
88	29.68	-0.11	8.5867	-8.0529	-0.0901	0.3531	-0.0780	0.0985	-0.9378						
89	29.99	-0.10	8.6976	-7.9661	-0.1443	0.5100	-0.0900	0.0718	-0.9159						

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		48		1.05 1.7		0.0	B2M3F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	-2.76	-0.06	-0.0144	0.0010	-0.0170	-0.0694	1.1804	-0.1422	0.0087	-0.0436	-0.0615	0.3065	
2	-2.76	-0.01	-0.0285	0.0012	-0.0154	-0.0421	0.5402	-0.1382	0.0086	-0.0433	-0.0622	0.3137	
3	-2.44	-0.06	-0.0285	0.0012	-0.0154	-0.0421	0.5402	-0.1264	0.0076	-0.0368	-0.0605	0.2913	
4	-1.85	-0.06	-0.0144	0.0010	-0.0170	-0.0694	1.1804	-0.1010	0.0060	-0.0259	-0.0594	0.2570	
5	-1.30	0.0	-0.0144	0.0010	-0.0170	-0.0694	1.1804	-0.0818	0.0044	-0.0176	-0.0544	0.2146	
6	-0.72	-0.02	-0.0144	0.0010	-0.0169	-0.0694	1.1735	-0.0605	0.0019	-0.0057	-0.0322	0.0935	
7	-0.18	-0.02	-0.0143	0.0009	-0.0169	-0.0664	1.1794	-0.0420	0.0003	0.0006	-0.0083	-0.0144	
8	0.36	-0.02	0.0039	0.0007	-0.0190	0.1923	-4.8719	-0.0265	-0.0018	0.0083	0.0698	-0.3121	
9	0.88	-0.05	0.0053	0.0006	-0.0190	0.1226	-3.5913	-0.0098	-0.0039	0.0170	0.3979	-1.7382	
10	1.40	-0.02	-0.0003	0.0007	-0.0184	-2.4996	61.3332	0.0056	-0.0052	0.0254	-0.9284	4.5296	
11	1.91	-0.01	-0.0004	0.0008	-0.0184	-1.9996	46.0832	0.0274	-0.0070	0.0348	-0.2554	1.2712	
12	2.42	-0.01	0.0039	0.0007	-0.0189	0.1923	-4.8463	0.0494	-0.0081	0.0422	-0.1639	0.8535	
13	2.88	-0.01	0.0095	0.0006	-0.0195	0.0684	-2.0563	0.0695	-0.0097	0.0528	-0.1395	0.7606	
14	3.36	-0.03	-0.0003	0.0007	-0.0184	-2.4996	61.3332	0.0947	-0.0111	0.0644	-0.1172	0.6866	
15	3.82	0.0	-0.0003	0.0007	-0.0184	-2.4996	61.3332	0.1149	-0.0116	0.0733	-0.1009	0.6378	
16	4.26	-0.03	0.0081	0.0006	-0.0193	0.0802	-2.3828	0.1381	-0.0122	0.0810	-0.0887	0.5867	
17	4.72	-0.02	0.0108	0.0006	-0.0196	0.0602	-1.8149	0.1616	-0.0131	0.0918	-0.0814	0.5684	
18	5.17	-0.05	0.0137	0.0005	-0.0195	0.0401	-1.4551	0.1811	-0.0132	0.0990	-0.0729	0.5469	
19	5.66	-0.07	0.0108	0.0006	-0.0196	0.0555	-1.8149	0.2062	-0.0135	0.1100	-0.0655	0.5335	
20	6.09	-0.06	0.0052	0.0007	-0.0190	0.1346	-3.6476	0.2272	-0.0132	0.1195	-0.0581	0.5260	
21	6.56	-0.05	0.0053	0.0006	-0.0189	0.1226	-3.5724	0.2529	-0.0134	0.1276	-0.0530	0.5048	
22	7.00	-0.03	0.0053	0.0006	-0.0189	0.1226	-3.5724	0.2757	-0.0133	0.1356	-0.0482	0.4917	
23	7.46	-0.07	0.0109	0.0005	-0.0196	0.0504	-1.7952	0.3007	-0.0134	0.1450	-0.0447	0.4822	
24	7.89	-0.07	-0.0044	0.0008	-0.0179	-0.1818	4.0605	0.3179	-0.0139	0.1503	-0.0437	0.4728	
25	8.33	-0.06	0.0053	0.0006	-0.0189	0.1226	-3.5724	0.3498	-0.0142	0.1601	-0.0406	0.4575	
26	8.74	-0.02	0.0053	0.0006	-0.0189	0.1132	-3.5724	0.3738	-0.0145	0.1702	-0.0388	0.4552	
27	9.15	-0.12	-0.0016	0.0007	-0.0182	-0.4374	11.3957	0.3929	-0.0143	0.1760	-0.0364	0.4480	
28	9.55	-0.06	0.0137	0.0005	-0.0198	0.0365	-1.4478	0.4147	-0.0140	0.1840	-0.0339	0.4436	
29	9.96	-0.06	0.0095	0.0005	-0.0194	0.0579	-2.0457	0.4372	-0.0136	0.1907	-0.0317	0.4361	
30	10.37	-0.03	0.0109	0.0005	-0.0196	0.0504	-1.7952	0.4637	-0.0134	0.1990	-0.0290	0.4292	
31	10.79	-0.02	0.0053	0.0006	-0.0189	0.1132	-3.5724	0.4761	-0.0131	0.2051	-0.0274	0.4290	
32	11.21	-0.05	0.0179	0.0004	-0.0204	0.0251	-1.1416	0.5014	-0.0134	0.2116	-0.0268	0.4219	
33	11.58	-0.04	0.0053	0.0006	-0.0190	0.1226	-3.5913	0.5287	-0.0134	0.2205	-0.0254	0.4170	
34	11.95	-0.07	-0.0002	0.0007	-0.0184	-3.4996	91.8332	0.5425	-0.0132	0.2233	-0.0244	0.4115	
35	12.31	-0.05	0.0221	0.0003	-0.0208	0.0158	-0.9428	0.5573	-0.0127	0.2284	-0.0229	0.4098	
36	12.67	-0.06	0.0193	0.0004	-0.0206	0.0233	-1.0657	0.5810	-0.0129	0.2349	-0.0222	0.4043	
37	13.00	-0.07	0.0375	0.0002	-0.0226	0.0053	-0.6028	0.5991	-0.0128	0.2401	-0.0214	0.4008	
38	13.39	-0.06	0.0418	0.0001	-0.0232	0.0024	-0.5543	0.6203	-0.0128	0.2453	-0.0206	0.3954	
39	13.74	-0.08	0.0475	0.0	-0.0235	0.0	-0.5026	0.6408	-0.0130	0.2505	-0.0203	0.3909	
40	14.10	-0.08	0.0475	0.0	-0.0235	0.0	-0.5026	0.6547	-0.0129	0.2538	-0.0197	0.3877	
41	14.44	-0.08	0.0670	-0.0002	-0.0260	-0.0037	-0.3877	0.6767	-0.0126	0.2588	-0.0186	0.3824	
42	14.81	-0.07	0.0670	-0.0002	-0.0260	-0.0037	-0.3877	0.6849	-0.0125	0.2630	-0.0183	0.3840	
43	15.18	-0.09	0.0882	-0.0003	-0.0284	-0.0062	-0.3221	0.7012	-0.0120	0.2668	-0.0172	0.3806	
44	15.53	-0.05	0.0897	-0.0006	-0.0286	-0.0072	-0.3190	0.7158	-0.0115	0.2696	-0.0161	0.3771	
45	15.86	-0.07	0.0881	-0.0005	-0.0283	-0.0062	-0.3217	0.7362	-0.0116	0.2732	-0.0158	0.3711	
46	16.18	-0.07	0.1076	-0.0008	-0.0303	-0.0079	-0.2839	0.7510	-0.0116	0.2769	-0.0155	0.3688	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSAUC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 48 1.05 1.7			0.0 82W3F12 16.750			0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.52	-0.06	0.1105	-0.0009	-0.0309	-0.0086	-0.2795	0.7697	-0.0117	0.2830	-0.0153	0.3676
48	16.85	-0.09	0.1175	-0.0010	-0.0316	-0.0089	-0.2693	0.7836	-0.0115	0.2860	-0.0147	0.3650
49	17.20	-0.09	0.1315	-0.0012	-0.0333	-0.0095	-0.2531	0.8011	-0.0112	0.2908	-0.0140	0.3630
50	17.52	-0.07	0.1398	-0.0014	-0.0341	-0.0104	-0.2440	0.8211	-0.0116	0.2942	-0.0142	0.3583
51	17.85	-0.07	0.1317	-0.0013	-0.0333	-0.0099	-0.2530	0.8452	-0.0116	0.3005	-0.0137	0.3556
52	18.17	-0.07	0.1263	-0.0012	-0.0327	-0.0099	-0.2590	0.8597	-0.0101	0.3067	-0.0117	0.3567
53	18.52	-0.07	0.1552	-0.0017	-0.0360	-0.0110	-0.2319	0.8839	-0.0091	0.3121	-0.0103	0.3531
54	18.85	-0.07	0.1611	-0.0017	-0.0367	-0.0109	-0.2279	0.9005	-0.0087	0.3166	-0.0097	0.3515
55	19.17	-0.08	0.1699	-0.0019	-0.0378	-0.0112	-0.2224	0.9172	-0.0087	0.3214	-0.0095	0.3504
56	19.51	-0.07	0.1614	-0.0017	-0.0368	-0.0108	-0.2281	0.9445	-0.0092	0.3277	-0.0097	0.3470
57	19.83	-0.06	0.1670	-0.0018	-0.0374	-0.0111	-0.2243	0.9604	-0.0098	0.3341	-0.0103	0.3479
58	20.18	-0.07	0.1697	-0.0020	-0.0377	-0.0121	-0.2225	0.9675	-0.0108	0.3352	-0.0112	0.3464
59	20.51	-0.07	0.1745	-0.0020	-0.0381	-0.0115	-0.2186	0.9750	-0.0104	0.3366	-0.0107	0.3452
60	20.88	-0.11	0.1791	-0.0020	-0.0386	-0.0114	-0.2156	0.9824	-0.0098	0.3382	-0.0100	0.3442
61	21.22	-0.09	0.1784	-0.0020	-0.0384	-0.0112	-0.2156	0.9914	-0.0104	0.3409	-0.0105	0.3438
62	21.54	-0.09	0.1905	-0.0022	-0.0397	-0.0118	-0.2085	1.0014	-0.0099	0.3423	-0.0099	0.3418
63	21.87	-0.08	0.1946	-0.0023	-0.0401	-0.0118	-0.2064	1.0058	-0.0103	0.3438	-0.0103	0.3418
64	22.17	-0.09	0.1946	-0.0023	-0.0401	-0.0118	-0.2064	1.0105	-0.0106	0.3468	-0.0105	0.3432
65	22.46	-0.10	0.1674	-0.0019	-0.0372	-0.0113	-0.2223	1.0217	-0.0118	0.3508	-0.0116	0.3434
66	22.79	-0.09	0.1816	-0.0021	-0.0388	-0.0118	-0.2136	1.0310	-0.0122	0.3505	-0.0118	0.3400
67	23.10	-0.09	0.1514	-0.0017	-0.0354	-0.0112	-0.2342	1.0423	-0.0127	0.3545	-0.0122	0.3401
68	23.42	-0.08	0.1646	-0.0018	-0.0370	-0.0112	-0.2251	1.0510	-0.0116	0.3573	-0.0111	0.3400
69	23.76	-0.09	0.1699	-0.0020	-0.0377	-0.0118	-0.2218	1.0461	-0.0120	0.3566	-0.0115	0.3409
70	24.04	-0.09	0.1460	-0.0016	-0.0350	-0.0110	-0.2401	1.0542	-0.0126	0.3572	-0.0119	0.3388
71	24.42	-0.09	0.1947	-0.0024	-0.0406	-0.0123	-0.2086	1.0577	-0.0140	0.3588	-0.0133	0.3393
72	24.73	-0.09	0.1838	-0.0022	-0.0394	-0.0122	-0.2147	1.0608	-0.0150	0.3595	-0.0141	0.3389
73	25.05	-0.08	0.1966	-0.0024	-0.0408	-0.0125	-0.2075	1.0685	-0.0160	0.3626	-0.0150	0.3394
74	25.35	-0.09	0.2108	-0.0026	-0.0425	-0.0126	-0.2014	1.0773	-0.0165	0.3645	-0.0153	0.3383
75	25.67	-0.10	0.1906	-0.0023	-0.0402	-0.0121	-0.2109	1.0888	-0.0177	0.3679	-0.0163	0.3379
76	25.95	-0.09	0.2189	-0.0029	-0.0433	-0.0135	-0.1976	1.0884	-0.0175	0.3670	-0.0161	0.3372
77	26.26	-0.11	0.2045	-0.0026	-0.0416	-0.0130	-0.2037	1.0999	-0.0186	0.3692	-0.0169	0.3357
78	26.56	-0.11	0.2187	-0.0028	-0.0432	-0.0130	-0.1976	1.0970	-0.0189	0.3702	-0.0173	0.3375
79	26.87	-0.11	0.2755	-0.0039	-0.0497	-0.0141	-0.1802	1.1012	-0.0185	0.3691	-0.0168	0.3352
80	27.20	-0.10	0.2541	-0.0033	-0.0472	-0.0132	-0.1859	1.1182	-0.0185	0.3719	-0.0165	0.3326
81	27.50	-0.10	0.2982	-0.0042	-0.0522	-0.0142	-0.1750	1.1271	-0.0179	0.3741	-0.0159	0.3319
82	27.81	-0.11	0.2949	-0.0039	-0.0518	-0.0134	-0.1756	1.1378	-0.0180	0.3774	-0.0159	0.3317
83	28.09	-0.10	0.3745	-0.0055	-0.0608	-0.0147	-0.1622	1.1249	-0.0187	0.3729	-0.0167	0.3315
84	28.42	-0.09	0.3462	-0.0049	-0.0576	-0.0143	-0.1664	1.1512	-0.0192	0.3780	-0.0167	0.3284
85	28.72	-0.09	0.3461	-0.0048	-0.0576	-0.0140	-0.1665	1.1623	-0.0181	0.3823	-0.0156	0.3289
86	29.06	-0.10	0.2451	-0.0031	-0.0462	-0.0126	-0.1886	1.1857	-0.0173	0.3890	-0.0146	0.3281
87	29.36	-0.14	0.2690	-0.0033	-0.0490	-0.0125	-0.1820	1.1831	-0.0178	0.3867	-0.0151	0.3269
88	29.68	-0.11	0.2805	-0.0035	-0.0503	-0.0125	-0.1793	1.1841	-0.0171	0.3872	-0.0145	0.3270
89	29.99	-0.10	0.2314	-0.0025	-0.0448	-0.0108	-0.1936	1.2059	-0.0147	0.3905	-0.0122	0.3238

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	48	1.05	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED	
PLINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.76	-0.06	0.0706	-0.0020	-0.0047	-0.0283	-0.0662	-0.1618	0.0084	-0.0377	-0.0522	0.2331
2	-2.76	-0.01	0.0675	-0.0020	-0.0051	-0.0304	-0.0757	-0.1602	0.0084	-0.0392	-0.0527	0.2446
3	-2.44	-0.06	0.0535	-0.0020	-0.0035	-0.0383	-0.0649	-0.1462	0.0078	-0.0343	-0.0537	0.2347
4	-1.89	-0.06	0.0674	-0.0020	-0.0050	-0.0304	-0.0748	-0.1111	0.0059	-0.0233	-0.0535	0.2099
5	-1.30	0.0	0.0669	-0.0024	-0.0043	-0.0359	-0.0644	-0.0833	0.0041	-0.0146	-0.0498	0.1748
6	-0.72	-0.02	0.0690	-0.0029	-0.0026	-0.0427	-0.0378	-0.0538	0.0019	-0.0044	-0.0362	0.0823
7	-0.18	-0.02	0.0711	-0.0034	-0.0009	-0.0478	-0.0128	-0.0274	-0.0004	0.0031	0.0146	-0.1120
8	0.36	-0.02	0.0643	-0.0040	-0.0008	-0.0622	-0.0120	-0.0064	-0.0022	0.0088	0.3515	-1.3699
9	0.88	-0.05	0.0643	-0.0039	-0.0008	-0.0606	-0.0120	0.0203	-0.0047	0.0177	-0.2339	0.8702
10	1.40	-0.02	0.0641	-0.0043	-0.0007	-0.0671	-0.0116	0.0454	-0.0062	0.0252	-0.1365	0.5557
11	1.91	-0.01	0.0661	-0.0043	0.0015	-0.0658	0.0231	0.0682	-0.0078	0.0329	-0.1143	0.4828
12	2.42	-0.01	0.0668	-0.0042	0.0002	-0.0636	0.0024	0.0951	-0.0091	0.0437	-0.0962	0.4594
13	2.88	-0.01	0.0626	-0.0043	0.0020	-0.0695	0.0313	0.1250	-0.0106	0.0523	-0.0852	0.4188
14	3.36	-0.03	0.0681	-0.0043	0.0034	-0.0639	0.0572	0.1554	-0.0118	0.0626	-0.0759	0.4027
15	3.82	0.0	0.0694	-0.0043	0.0011	-0.0627	0.0162	0.1759	-0.0123	0.0715	-0.0699	0.4066
16	4.26	-0.03	0.0795	-0.0039	0.0007	-0.0497	0.0087	0.2000	-0.0126	0.0808	-0.0632	0.4042
17	4.72	-0.02	0.0810	-0.0039	0.0037	-0.0481	0.0456	0.2266	-0.0134	0.0914	-0.0591	0.4034
18	5.17	-0.05	0.0777	-0.0039	0.0040	-0.0508	0.0514	0.2484	-0.0130	0.1002	-0.0523	0.4033
19	5.66	-0.07	0.0764	-0.0035	0.0067	-0.0465	0.0871	0.2747	-0.0126	0.1103	-0.0458	0.4016
20	6.09	-0.06	0.0897	-0.0036	0.0058	-0.0401	0.0645	0.3077	-0.0122	0.1215	-0.0396	0.3949
21	6.56	-0.05	0.0765	-0.0032	0.0090	-0.0414	0.1141	0.3312	-0.0123	0.1305	-0.0371	0.3939
22	7.00	-0.03	0.0867	-0.0032	0.0055	-0.0375	0.0633	0.3524	-0.0126	0.1385	-0.0357	0.3931
23	7.46	-0.07	0.0853	-0.0028	0.0081	-0.0334	0.0952	0.3812	-0.0126	0.1440	-0.0332	0.3909
24	7.89	-0.07	0.1018	-0.0029	0.0075	-0.0285	0.0739	0.3980	-0.0127	0.1527	-0.0320	0.3837
25	8.33	-0.06	0.1018	-0.0028	0.0075	-0.0275	0.0739	0.4214	-0.0130	0.1630	-0.0308	0.3868
26	8.74	-0.02	0.0957	-0.0025	0.0070	-0.0266	0.0730	0.4487	-0.0130	0.1698	-0.0291	0.3784
27	9.15	-0.12	0.1018	-0.0023	0.0082	-0.0231	0.0808	0.4682	-0.0132	0.1774	-0.0283	0.3789
28	9.55	-0.06	0.1019	-0.0022	0.0082	-0.0221	0.0800	0.4955	-0.0130	0.1886	-0.0263	0.3806
29	9.96	-0.06	0.1016	-0.0022	0.0085	-0.0221	0.0872	0.5103	-0.0128	0.1954	-0.0251	0.3830
30	10.37	-0.03	0.0974	-0.0022	0.0106	-0.0231	0.1084	0.5403	-0.0128	0.2045	-0.0238	0.3786
31	10.79	-0.02	0.0975	-0.0019	0.0105	-0.0200	0.1076	0.5602	-0.0128	0.2103	-0.0229	0.3753
32	11.21	-0.05	0.1025	-0.0018	0.0135	-0.0180	0.1352	0.5779	-0.0125	0.2176	-0.0217	0.3765
33	11.58	-0.04	0.0965	-0.0015	0.0133	-0.0161	0.1374	0.6078	-0.0125	0.2242	-0.0206	0.3689
34	11.95	-0.07	0.1028	-0.0012	0.0138	-0.0122	0.1338	0.6206	-0.0127	0.2299	-0.0205	0.3704
35	12.31	-0.05	0.1059	-0.0010	0.0084	-0.0094	0.0792	0.6394	-0.0125	0.2352	-0.0196	0.3679
36	12.67	-0.06	0.1120	-0.0013	0.0090	-0.0116	0.0805	0.6606	-0.0126	0.2407	-0.0191	0.3644
37	13.00	-0.07	0.1033	-0.0008	0.0138	-0.0077	0.1338	0.6928	-0.0126	0.2513	-0.0183	0.3628
38	13.39	-0.06	0.1103	-0.0012	0.0131	-0.0113	0.1183	0.7013	-0.0131	0.2559	-0.0187	0.3649
39	13.74	-0.08	0.1001	-0.0008	0.0143	-0.0080	0.1424	0.7320	-0.0128	0.2636	-0.0175	0.3601
40	14.10	-0.08	0.1035	-0.0010	0.0138	-0.0097	0.1332	0.7448	-0.0126	0.2660	-0.0170	0.3571
41	14.44	-0.08	0.1194	-0.0007	0.0146	-0.0063	0.1222	0.7681	-0.0125	0.2739	-0.0163	0.3566
42	14.81	-0.07	0.1090	-0.0007	0.0157	-0.0069	0.1442	0.7782	-0.0123	0.2770	-0.0159	0.3560
43	15.18	-0.09	0.1149	-0.0003	0.0176	-0.0030	0.1531	0.7972	-0.0116	0.2822	-0.0146	0.3540
44	15.53	-0.05	0.1226	-0.0012	0.0148	-0.0102	0.1211	0.8206	-0.0114	0.2898	-0.0139	0.3532
45	15.86	-0.07	0.1144	-0.0012	0.0177	-0.0109	0.1549	0.8379	-0.0113	0.2934	-0.0135	0.3502
46	16.18	-0.07	0.1284	-0.0007	0.0161	-0.0058	0.1253	0.8536	-0.0120	0.2983	-0.0141	0.3495

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 48 1.05 1.7			0.0 82W3F12		16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.52	-0.06	0.1194	-0.0009	0.0146	-0.0080	0.1222	0.8707	-0.0115	0.3017	-0.0132	0.3465
48	16.85	-0.09	0.1230	-0.0003	0.0205	-0.0028	0.1665	0.8893	-0.0116	0.3075	-0.0130	0.3458
49	17.20	-0.09	0.1145	-0.0009	0.0176	-0.0083	0.1542	0.9010	-0.0116	0.3105	-0.0129	0.3446
50	17.52	-0.07	0.1197	0.0001	0.0145	0.0008	0.1210	0.9273	-0.0110	0.3183	-0.0119	0.3432
51	17.85	-0.07	0.1232	-0.0003	0.0141	-0.0024	0.1149	0.9497	-0.0116	0.3240	-0.0122	0.3411
52	18.17	-0.07	0.1256	0.0000	0.0164	0.0004	0.1310	0.9611	-0.0109	0.3300	-0.0113	0.3433
53	18.52	-0.07	0.1157	-0.0003	0.0177	-0.0030	0.1534	0.9818	-0.0104	0.3339	-0.0106	0.3400
54	18.85	-0.07	0.1264	-0.0003	0.0166	-0.0028	0.1315	1.0000	-0.0098	0.3392	-0.0098	0.3392
55	19.17	-0.08	0.1234	0.0006	0.0176	0.0044	0.1379	1.0194	-0.0098	0.3431	-0.0096	0.3365
56	19.51	-0.07	0.1331	0.0000	0.0171	0.0004	0.1289	1.0388	-0.0095	0.3507	-0.0092	0.3376
57	19.83	-0.06	0.1286	-0.0005	0.0190	-0.0043	0.1481	1.0533	-0.0107	0.3532	-0.0102	0.3353
58	20.18	-0.07	0.1341	0.0000	0.0205	0.0004	0.1557	1.0721	-0.0105	0.3571	-0.0098	0.3331
59	20.51	-0.07	0.1349	-0.0003	0.0180	-0.0026	0.1338	1.0712	-0.0105	0.3568	-0.0098	0.3331
60	20.88	-0.11	0.1349	-0.0002	0.0225	-0.0015	0.1701	1.0790	-0.0101	0.3585	-0.0094	0.3323
61	21.22	-0.09	0.1378	-0.0003	0.0225	-0.0022	0.1634	1.0964	-0.0098	0.3636	-0.0089	0.3317
62	21.54	-0.09	0.1414	-0.0007	0.0208	-0.0049	0.1472	1.1050	-0.0096	0.3644	-0.0087	0.3298
63	21.87	-0.08	0.1459	-0.0002	0.0247	-0.0017	0.1694	1.1162	-0.0093	0.3685	-0.0083	0.3302
64	22.17	-0.09	0.1465	0.0004	0.0235	0.0027	0.1632	1.1232	-0.0094	0.3706	-0.0084	0.3299
65	22.46	-0.10	0.1486	0.0007	0.0213	0.0050	0.1434	1.1356	-0.0098	0.3746	-0.0086	0.3299
66	22.79	-0.09	0.1537	0.0001	0.0235	0.0007	0.1556	1.1462	-0.0099	0.3778	-0.0086	0.3296
67	23.10	-0.09	0.1375	0.0007	0.0252	0.0051	0.1834	1.1564	-0.0104	0.3776	-0.0090	0.3266
68	23.42	-0.08	0.1436	0.0008	0.0272	0.0056	0.1898	1.1618	-0.0093	0.3821	-0.0080	0.3289
69	23.76	-0.09	0.1550	0.0007	0.0262	0.0045	0.1693	1.1647	-0.0087	0.3829	-0.0075	0.3288
70	24.04	-0.09	0.1473	0.0004	0.0221	0.0027	0.1499	1.1721	-0.0084	0.3832	-0.0072	0.3269
71	24.42	-0.09	0.1535	0.0012	0.0240	0.0078	0.1567	1.1778	-0.0086	0.3865	-0.0073	0.3281
72	24.73	-0.09	0.1571	0.0012	0.0243	0.0076	0.1550	1.1928	-0.0085	0.3900	-0.0072	0.3269
73	25.05	-0.08	0.1598	0.0016	0.0255	0.0100	0.1624	1.2127	-0.0085	0.3951	-0.0070	0.3258
74	25.35	-0.09	0.1555	0.0007	0.0271	0.0045	0.1744	1.2237	-0.0089	0.3969	-0.0073	0.3244
75	25.67	-0.10	0.1593	0.0012	0.0260	0.0075	0.1631	1.2391	-0.0091	0.3994	-0.0074	0.3223
76	25.95	-0.09	0.1392	0.0007	0.0256	0.0050	0.1438	1.2515	-0.0088	0.4038	-0.0070	0.3227
77	26.26	-0.11	0.1534	0.0012	0.0240	0.0078	0.1566	1.2474	-0.0094	0.4024	-0.0076	0.3226
78	26.56	-0.11	0.1659	0.0016	0.0258	0.0096	0.1554	1.2564	-0.0089	0.4030	-0.0071	0.3208
79	26.87	-0.11	0.1563	0.0005	0.0243	0.0032	0.1554	1.2674	-0.0093	0.4062	-0.0074	0.3205
80	27.20	-0.10	0.1688	0.0020	0.0267	0.0118	0.1585	1.2667	-0.0090	0.4072	-0.0071	0.3215
81	27.50	-0.10	0.1558	0.0020	0.0263	0.0128	0.1689	1.2798	-0.0090	0.4093	-0.0071	0.3199
82	27.81	-0.11	0.1656	0.0020	0.0264	0.0121	0.1593	1.2858	-0.0094	0.4090	-0.0073	0.3181
83	28.09	-0.10	0.1531	0.0008	0.0240	0.0052	0.1569	1.2971	-0.0099	0.4142	-0.0076	0.3193
84	28.42	-0.09	0.1660	0.0022	0.0257	0.0133	0.1549	1.3018	-0.0096	0.4148	-0.0074	0.3186
85	28.72	-0.09	0.1566	0.0016	0.0242	0.0102	0.1544	1.3033	-0.0093	0.4169	-0.0071	0.3199
86	29.06	-0.10	0.1696	0.0020	0.0246	0.0118	0.1451	1.3060	-0.0090	0.4158	-0.0069	0.3184
87	29.36	-0.14	0.1661	0.0022	0.0314	0.0132	0.1893	1.3135	-0.0088	0.4175	-0.0067	0.3178
88	29.68	-0.11	0.1693	0.0027	0.0324	0.0159	0.1915	1.3063	-0.0078	0.4159	-0.0060	0.3184
89	29.99	-0.10	0.1670	0.0026	0.0315	0.0156	0.1889	1.3021	-0.0070	0.4152	-0.0054	0.3189

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	49	1.10	1.7	0.0	B2W3F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.36	-0.06	-0.4640	0.5497	0.2014	-0.0580	0.0050	0.3284	-1.1845		
2	-2.03	-0.04	-0.4008	0.4552	0.1356	-0.0718	0.0060	0.3422	-1.1356		
3	-1.40	-0.05	-0.2606	0.3138	-0.0853	0.0854	0.0070	0.3382	-1.2043		
4	-0.87	-0.01	-0.1996	0.2474	0.0355	0.0153	0.0040	0.3426	-1.2397		
5	-0.35	-0.07	-0.0879	0.1810	0.0183	0.0504	0.0060	0.3465	-2.0598		
6	0.21	-0.02	-0.0351	0.1291	-0.0317	0.0954	0.0050	0.3572	-3.6792		
7	0.72	-0.04	0.0506	0.0841	-0.0347	0.0386	0.0050	0.3502	1.6632		
8	1.27	-0.05	0.2108	-0.0491	0.0722	0.0199	0.0050	0.3585	-0.2330		
9	1.76	0.01	0.2703	-0.1404	0.0316	0.0368	0.0040	0.3610	-0.5195		
10	2.27	-0.04	0.3340	-0.2556	0.0191	0.0053	0.0090	0.3544	-0.7220		
11	2.75	-0.02	0.4693	-0.3501	-0.0197	-0.0314	0.0090	0.3657	-0.7460		
12	3.20	-0.02	0.5329	-0.5221	0.1103	0.1146	0.0040	0.3546	-0.9797		
13	3.69	-0.09	0.6709	-0.6503	0.0243	-0.0430	0.0070	0.3616	-0.9782		
14	4.16	-0.06	0.7940	-0.3176	-0.0587	0.0082	0.0120	0.3590	-1.0298		
15	4.63	0.0	0.9013	-0.9548	-0.0304	0.0226	0.0050	0.3713	-1.0594		
16	5.06	-0.05	0.9778	-1.0879	0.1182	-0.1165	0.0090	0.3691	-1.1126		
17	5.53	-0.07	1.0675	-1.2575	0.0759	-0.1152	0.0080	0.3760	-1.1760		
18	5.98	-0.07	1.1897	-1.4577	0.1790	-0.1096	0.0060	0.3835	-1.2252		
19	6.45	-0.05	1.3209	-1.5993	-0.1068	0.1945	0.0070	0.3876	-1.2108		
20	6.89	-0.05	1.4291	-1.7648	-0.0320	-0.1382	0.0060	0.3811	-1.2349		
21	7.36	-0.01	1.5290	-1.9456	0.1133	-0.0686	0.0070	0.3845	-1.2725		
22	7.77	-0.03	1.6643	-2.1820	0.2632	-0.2185	0.0070	0.3867	-1.3111		
23	8.21	-0.11	1.7265	-2.3281	0.0410	-0.1194	0.0080	0.3900	-1.3485		
24	8.64	0.04	1.8470	-2.4718	0.1239	-0.0685	0.0050	0.3876	-1.3383		
25	9.03	-0.08	1.9125	-2.6166	0.0252	-0.1443	0.0130	0.3870	-1.3681		
26	9.45	-0.05	2.0274	-2.7704	0.1363	-0.0318	0.0050	0.3812	-1.3704		
27	9.87	-0.08	2.1300	-2.9050	0.1550	0.0070	0.0080	0.3721	-1.3639		
28	10.28	-0.02	2.2459	-3.0633	-0.0915	-0.0485	0.0080	0.3725	-1.3639		
29	10.68	-0.05	2.3657	-3.3060	0.1971	-0.1189	0.0030	0.3694	-1.3975		
30	11.07	-0.05	2.4809	-3.5052	-0.0263	-0.0162	0.0100	0.3657	-1.4129		
31	11.46	-0.01	2.6131	-3.6273	0.0504	-0.0356	0.0080	0.3630	-1.3881		
32	11.82	0.0	2.6903	-3.7695	0.1238	-0.0473	0.0040	0.3551	-1.4011		
33	12.19	-0.02	2.8181	-3.9474	-0.0011	0.0105	0.0060	0.3592	-1.4007		
34	12.57	-0.01	2.9179	-4.1091	-0.0120	0.1178	0.0030	0.3567	-1.4082		
35	12.93	-0.05	3.0051	-4.2327	0.0254	0.0484	0.0060	0.3558	-1.4006		
36	13.30	-0.06	3.1240	-4.3686	0.0490	0.0604	0.0020	0.3536	-1.3984		
37	13.65	-0.03	3.2268	-4.4705	0.0724	0.0216	0.0080	0.3539	-1.3854		
38	14.03	-0.03	3.3506	-4.6648	0.1239	0.0805	0.0030	0.3404	-1.3922		
39	14.37	-0.07	3.4317	-4.7623	-0.0054	0.1765	0.0090	0.3352	-1.3878		
40	14.72	-0.05	3.5193	-4.8551	-0.0146	0.1954	0.0100	0.3252	-1.3795		
41	15.09	-0.06	3.6054	-4.9616	0.0417	0.1266	0.0070	0.3144	-1.3761		
42	15.43	-0.06	3.7374	-5.0954	0.0092	0.0341	0.0	0.2985	-1.3633		
43	15.77	-0.06	3.8246	-5.2625	-0.0550	0.1300	0.0050	0.3001	-1.3759		
44	16.11	-0.07	3.9233	-5.3606	-0.1034	0.2617	0.0	0.2967	-1.3664		
45	16.43	-0.08	4.0393	-5.5390	0.0502	0.1357	-0.0010	0.2966	-1.3713		
46	16.76	-0.06	4.1445	-5.6543	-0.0030	0.1302	-0.0010	0.2932	-1.3643		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH AX10-6			PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	49	1.10 1.7	0.0	82WJF12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP	
47	17.10	-0.07	4.2591	-5.8418	-0.0296	0.1664	-0.0070	0.2886	-1.3716	
48	17.42	-0.08	4.3102	-5.9053	-0.1016	0.2142	-0.0080	0.2922	-1.3701	
49	17.76	-0.09	4.4390	-6.0237	-0.0824	0.2133	-0.0170	0.2869	-1.3570	
50	18.10	-0.05	4.5644	-6.1142	0.0512	0.2563	-0.0210	0.2881	-1.3395	
51	18.44	-0.07	4.6389	-6.2225	-0.0591	0.3047	-0.0210	0.2838	-1.3414	
52	18.77	-0.07	4.7739	-6.3505	-0.0159	0.1212	-0.0270	0.2797	-1.3303	
53	19.10	-0.08	4.9026	-6.4856	-0.1049	0.2508	-0.0290	0.2758	-1.3229	
54	19.43	-0.05	5.0065	-6.5332	0.0725	0.1765	-0.0320	0.2747	-1.3049	
55	19.75	-0.07	5.0759	-6.6414	-0.0465	0.1751	-0.0330	0.2723	-1.3084	
56	20.10	-0.11	5.1980	-6.7443	-0.1637	0.2102	-0.0260	0.2671	-1.2975	
57	20.42	-0.10	5.2460	-6.8485	-0.0902	0.1773	-0.0320	0.2659	-1.3055	
58	20.77	-0.09	5.3428	-6.8970	-0.0632	0.2294	-0.0330	0.2628	-1.2909	
59	21.10	-0.08	5.4410	-6.9785	-0.0473	0.3402	-0.0290	0.2495	-1.2826	
60	21.44	-0.10	5.5679	-7.0461	-0.1235	0.2069	-0.0260	0.2475	-1.2655	
61	21.76	-0.10	5.6168	-7.1116	-0.1141	0.2357	-0.0250	0.2444	-1.2661	
62	22.10	-0.07	5.7767	-7.1736	0.0411	0.2044	-0.0360	0.2339	-1.2418	
63	22.42	-0.07	5.8890	-7.2288	0.0554	0.1444	-0.0270	0.2338	-1.2275	
64	22.74	-0.09	6.0005	-7.1739	-0.0797	0.2735	-0.0350	0.2364	-1.1955	
65	23.06	-0.08	6.0883	-7.2168	-0.0358	0.2341	-0.0320	0.2356	-1.1854	
66	23.39	-0.07	6.2312	-7.2429	0.0647	0.2514	-0.0340	0.2285	-1.1624	
67	23.71	-0.08	6.2913	-7.1940	0.0261	0.2264	-0.0360	0.2305	-1.1435	
68	24.03	-0.11	6.4032	-7.2397	-0.0577	0.1738	-0.0340	0.2243	-1.1306	
69	24.37	-0.09	6.5320	-7.2061	0.0084	0.2132	-0.0320	0.2287	-1.1032	
70	24.68	-0.11	6.6534	-7.2231	-0.1572	0.3980	-0.0400	0.2189	-1.0856	
71	25.01	-0.10	6.7477	-7.2311	-0.1102	0.3772	-0.0390	0.2164	-1.0716	
72	25.31	-0.10	6.8463	-7.2191	-0.1683	0.5256	-0.0480	0.2144	-1.0545	
73	25.64	-0.09	7.0232	-7.2848	-0.0110	0.3304	-0.0540	0.2065	-1.0372	
74	25.93	-0.11	7.0536	-7.2783	-0.1797	0.4595	-0.0560	0.2075	-1.0319	
75	26.25	-0.10	7.1996	-7.2467	-0.2035	0.6338	-0.0610	0.2019	-1.0066	
76	26.54	-0.08	7.3057	-7.2194	-0.0880	0.5501	-0.0620	0.1997	-0.9882	
77	26.83	-0.12	7.3905	-7.2611	-0.3120	0.5597	-0.0600	0.1940	-0.9825	
78	27.16	-0.10	7.5456	-7.2113	-0.2658	0.8640	-0.0820	0.1947	-0.9557	
79	27.48	-0.09	7.7133	-7.2741	-0.2124	0.8243	-0.0930	0.1863	-0.9431	
80	27.81	-0.08	7.8336	-7.2585	-0.0677	0.5877	-0.1020	0.1777	-0.9266	
81	28.11	-0.10	7.9147	-7.2850	-0.2232	0.6334	-0.1040	0.1767	-0.9204	
82	28.42	-0.10	8.0233	-7.2861	-0.1809	0.6212	-0.1060	0.1664	-0.9081	
83	28.72	-0.11	8.1513	-7.2964	-0.2760	0.7283	-0.1100	0.1638	-0.8951	
84	29.04	-0.09	8.2555	-7.3033	-0.0766	0.3952	-0.1240	0.1626	-0.8847	
85	29.36	-0.11	8.3935	-7.3705	-0.1272	0.4350	-0.1300	0.1605	-0.8781	
86	29.66	-0.10	8.5247	-7.3102	0.0010	0.0866	-0.1200	0.1562	-0.8575	
87	29.98	-0.09	8.6416	-7.5138	-0.1693	0.7349	-0.1400	0.1607	-0.8695	
88	30.30	-0.07	8.7583	-7.3152	-0.2701	0.6781	-0.1290	0.1409	-0.8352	
89	30.51	0.01	8.7168	-7.3751	0.3766	0.2797	-0.1200	0.1027	-0.8461	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 49.1.10 1.7			0.0	B2W3F12	16.750	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.36	-0.06	-0.0413	0.0010	-0.0136	-0.0242	0.3204	-0.1163	0.0074	-0.0404	-0.0640	0.3478
2	-2.03	-0.04	-0.0357	0.0009	-0.0142	-0.0252	0.3976	-0.1001	0.0056	-0.0313	-0.0559	0.3132
3	-1.40	-0.05	-0.0219	0.0007	-0.0157	-0.0320	0.7168	-0.0790	0.0038	-0.0214	-0.0481	0.2712
4	-0.87	-0.01	-0.0275	0.0008	-0.0151	-0.0291	0.5478	-0.0580	0.0018	-0.0112	-0.0310	0.1936
5	-0.35	-0.07	-0.0040	0.0004	-0.0177	-0.1125	4.4332	-0.0437	0.0000	-0.0054	-0.0011	0.1227
6	0.21	-0.02	-0.0233	0.0007	-0.0156	-0.0300	0.6660	-0.0271	-0.0023	0.0022	0.0849	-0.0801
7	0.72	-0.04	-0.0178	0.0006	-0.0161	-0.0365	0.9062	-0.0130	-0.0036	0.0089	0.2807	-0.6822
8	1.27	-0.05	-0.0220	0.0007	-0.0156	-0.0318	0.7105	0.0143	-0.0062	0.0215	-0.4335	1.5010
9	1.76	0.01	-0.0247	0.0008	-0.0154	-0.0324	0.6247	0.0334	-0.0076	0.0291	-0.2275	0.8721
10	2.27	-0.04	-0.0137	0.0006	-0.0166	-0.0438	1.2091	0.0509	-0.0090	0.0382	-0.1768	0.7497
11	2.75	-0.02	-0.0082	0.0005	-0.0172	-0.0671	2.1015	0.0661	-0.0101	0.0461	-0.1528	0.6978
12	3.20	-0.02	0.0057	0.0003	-0.0188	0.0526	-3.2984	0.0901	-0.0115	0.0555	-0.1282	0.6162
13	3.69	-0.09	-0.0137	0.0006	-0.0166	-0.0474	1.2091	0.1092	-0.0120	0.0625	-0.1099	0.5722
14	4.16	-0.06	-0.0082	0.0005	-0.0172	-0.0671	2.1015	0.1333	-0.0127	0.0710	-0.0953	0.5328
15	4.63	0.0	-0.0178	0.0007	-0.0161	-0.0393	0.9062	0.1527	-0.0133	0.0822	-0.0874	0.5382
16	5.06	-0.05	-0.0082	0.0005	-0.0172	-0.0671	2.1015	0.1782	-0.0138	0.0900	-0.0774	0.5049
17	5.53	-0.07	-0.0137	0.0006	-0.0166	-0.0474	1.2091	0.1968	-0.0139	0.0993	-0.0706	0.5045
18	5.98	-0.07	-0.0164	0.0006	-0.0163	-0.0396	0.9918	0.2174	-0.0137	0.1101	-0.0632	0.5066
19	6.45	-0.05	-0.0136	0.0006	-0.0165	-0.0441	1.2156	0.2500	-0.0142	0.1205	-0.0570	0.4820
20	6.89	-0.05	-0.0081	0.0005	-0.0172	-0.0617	2.1233	0.2682	-0.0143	0.1261	-0.0535	0.4704
21	7.36	-0.01	-0.0136	0.0006	-0.0166	-0.0441	1.2229	0.2955	-0.0146	0.1365	-0.0494	0.4616
22	7.77	-0.03	-0.0136	0.0006	-0.0165	-0.0441	1.2156	0.3232	-0.0150	0.1457	-0.0464	0.4508
23	8.21	-0.11	-0.0136	0.0005	-0.0165	-0.0404	1.2156	0.3435	-0.0150	0.1521	-0.0438	0.4426
24	8.64	0.04	-0.0094	0.0004	-0.0170	-0.0479	1.8119	0.3662	-0.0154	0.1601	-0.0420	0.4372
25	9.03	-0.08	-0.0080	0.0004	-0.0172	-0.0562	2.1457	0.3866	-0.0156	0.1674	-0.0403	0.4330
26	9.45	-0.05	-0.0135	0.0005	-0.0166	-0.0370	1.2295	0.4135	-0.0156	0.1750	-0.0383	0.4232
27	9.87	-0.06	-0.0094	0.0004	-0.0170	-0.0479	1.8119	0.4268	-0.0154	0.1788	-0.0361	0.4189
28	10.28	-0.02	-0.0135	0.0004	-0.0165	-0.0333	1.2221	0.4559	-0.0154	0.1877	-0.0339	0.4117
29	10.68	-0.05	-0.0080	0.0004	-0.0172	-0.0500	2.1457	0.4737	-0.0149	0.1949	-0.0315	0.4115
30	11.07	-0.05	-0.0080	0.0004	-0.0172	-0.0500	2.1457	0.5042	-0.0151	0.2037	-0.0299	0.4040
31	11.46	-0.01	-0.0094	0.0004	-0.0170	-0.0479	1.8119	0.5286	-0.0144	0.2101	-0.0272	0.3975
32	11.82	0.0	0.0044	0.0002	-0.0185	-0.0568	-4.2122	0.5405	-0.0137	0.2146	-0.0254	0.3970
33	12.19	-0.02	-0.0080	0.0004	-0.0172	-0.0500	2.1457	0.5623	-0.0144	0.2221	-0.0256	0.3949
34	12.57	-0.01	0.0196	-0.0000	-0.0203	-0.0026	-1.0341	0.5835	-0.0140	0.2258	-0.0241	0.3870
35	12.93	-0.05	0.0057	0.0002	-0.0187	-0.0439	-3.2808	0.5997	-0.0144	0.2302	-0.0240	0.3839
36	13.30	-0.06	0.0195	-0.0000	-0.0202	-0.0026	-1.0360	0.6126	-0.0146	0.2365	-0.0238	0.3861
37	13.65	-0.03	0.0249	-0.0000	-0.0208	-0.0020	-0.8355	0.6297	-0.0149	0.2388	-0.0237	0.3793
38	14.03	-0.03	0.0385	-0.0002	-0.0223	-0.0065	-0.5765	0.6503	-0.0143	0.2442	-0.0221	0.3755
39	14.37	-0.07	0.0550	-0.0005	-0.0242	-0.0091	-0.4395	0.6675	-0.0137	0.2481	-0.0205	0.3717
40	14.72	-0.05	0.0509	-0.0004	-0.0237	-0.0088	-0.4664	0.6749	-0.0135	0.2496	-0.0200	0.3698
41	15.09	-0.06	0.0661	-0.0007	-0.0255	-0.0106	-0.3854	0.6934	-0.0143	0.2519	-0.0206	0.3634
42	15.43	-0.06	0.0798	-0.0008	-0.0270	-0.0106	-0.3385	0.7118	-0.0145	0.2591	-0.0204	0.3640
43	15.77	-0.06	0.0745	-0.0007	-0.0265	-0.0101	-0.3554	0.7263	-0.0146	0.2643	-0.0202	0.3639
44	16.11	-0.07	0.0940	-0.0011	-0.0287	-0.0117	-0.3051	0.7457	-0.0144	0.2681	-0.0194	0.3595
45	16.43	-0.06	0.0884	-0.0009	-0.0280	-0.0107	-0.3172	0.7670	-0.0148	0.2733	-0.0193	0.3563
46	16.76	-0.06	0.1064	-0.0012	-0.0300	-0.0117	-0.2424	0.7830	-0.0137	0.2771	-0.0176	0.3539

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

 PAGE 2 OF 3
 SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION		
6 49 1.10 1.7			0.0	B2W3F12	16.750	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCFF1	YCFF1	CNF2	CH2	CB2	XCFF2	YCFF2
47	17.10	-0.07	0.1243	-0.0015	-0.0321	-0.0125	-0.2581	0.8088	-0.0131	0.2847	-0.0163	0.3520
48	17.42	-0.08	0.1243	-0.0015	-0.0321	-0.0125	-0.2581	0.8215	-0.0126	0.2871	-0.0153	0.3495
49	17.76	-0.09	0.1423	-0.0018	-0.0342	-0.0126	-0.2402	0.8388	-0.0121	0.2921	-0.0145	0.3482
50	18.10	-0.05	0.1478	-0.0019	-0.0347	-0.0129	-0.2351	0.8573	-0.0120	0.2972	-0.0140	0.3466
51	18.44	-0.07	0.1338	-0.0016	-0.0331	-0.0123	-0.2475	0.8771	-0.0113	0.3009	-0.0129	0.3430
52	18.77	-0.07	0.1792	-0.0024	-0.0383	-0.0134	-0.2137	0.8935	-0.0124	0.3045	-0.0139	0.3408
53	19.10	-0.08	0.1574	-0.0020	-0.0358	-0.0130	-0.2278	0.9167	-0.0120	0.3107	-0.0131	0.3389
54	19.43	-0.05	0.1656	-0.0022	-0.0367	-0.0136	-0.2217	0.9274	-0.0119	0.3131	-0.0128	0.3376
55	19.75	-0.07	0.1639	-0.0021	-0.0365	-0.0131	-0.2226	0.9382	-0.0120	0.3172	-0.0128	0.3381
56	20.10	-0.11	0.1656	-0.0023	-0.0367	-0.0139	-0.2217	0.9555	-0.0123	0.3202	-0.0129	0.3351
57	20.42	-0.10	0.1834	-0.0025	-0.0387	-0.0136	-0.2110	0.9638	-0.0121	0.3240	-0.0125	0.3361
58	20.77	-0.09	0.1846	-0.0026	-0.0388	-0.0141	-0.2101	0.9714	-0.0122	0.3262	-0.0126	0.3358
59	21.10	-0.08	0.1787	-0.0025	-0.0381	-0.0140	-0.2135	0.9879	-0.0124	0.3296	-0.0125	0.3336
60	21.44	-0.10	0.1692	-0.0024	-0.0370	-0.0142	-0.2188	0.9907	-0.0126	0.3320	-0.0129	0.3351
61	21.76	-0.10	0.1487	-0.0020	-0.0347	-0.0138	-0.2337	1.0034	-0.0132	0.3354	-0.0132	0.3342
62	22.10	-0.07	0.1707	-0.0024	-0.0372	-0.0144	-0.2180	1.0148	-0.0135	0.3387	-0.0135	0.3337
63	22.42	-0.07	0.1296	-0.0018	-0.0326	-0.0139	-0.2517	1.0234	-0.0142	0.3421	-0.0139	0.3343
64	22.74	-0.09	0.1474	-0.0021	-0.0346	-0.0142	-0.2346	1.0350	-0.0147	0.3430	-0.0142	0.3314
65	23.06	-0.08	0.1335	-0.0019	-0.0330	-0.0142	-0.2473	1.0336	-0.0157	0.3432	-0.0152	0.3321
66	23.39	-0.07	0.1323	-0.0019	-0.0325	-0.0147	-0.2488	1.0387	-0.0163	0.3458	-0.0157	0.3329
67	23.71	-0.08	0.1433	-0.0021	-0.0341	-0.0150	-0.2383	1.0389	-0.0169	0.3452	-0.0163	0.3323
68	24.03	-0.11	0.1376	-0.0020	-0.0334	-0.0149	-0.2431	1.0465	-0.0178	0.3469	-0.0170	0.3315
69	24.37	-0.09	0.1199	-0.0018	-0.0314	-0.0150	-0.2623	1.0406	-0.0184	0.3446	-0.0177	0.3312
70	24.68	-0.11	0.1605	-0.0024	-0.0359	-0.0153	-0.2238	1.0478	-0.0197	0.3459	-0.0188	0.3302
71	25.01	-0.10	0.1701	-0.0026	-0.0370	-0.0156	-0.2176	1.0537	-0.0199	0.3489	-0.0189	0.3311
72	25.31	-0.10	0.1973	-0.0031	-0.0400	-0.0160	-0.2030	1.0515	-0.0211	0.3484	-0.0201	0.3313
73	25.64	-0.09	0.1973	-0.0031	-0.0400	-0.0160	-0.2030	1.0577	-0.0235	0.3513	-0.0222	0.3322
74	25.93	-0.11	0.2108	-0.0033	-0.0416	-0.0159	-0.1971	1.0670	-0.0231	0.3534	-0.0216	0.3312
75	26.25	-0.10	0.2516	-0.0040	-0.0462	-0.0161	-0.1635	1.0763	-0.0234	0.3557	-0.0217	0.3305
76	26.54	-0.08	0.2282	-0.0037	-0.0435	-0.0164	-0.1904	1.0769	-0.0231	0.3560	-0.0215	0.3306
77	26.83	-0.12	0.2450	-0.0040	-0.0455	-0.0163	-0.1851	1.0884	-0.0232	0.3569	-0.0214	0.3279
78	27.16	-0.10	0.3057	-0.0050	-0.0522	-0.0163	-0.1707	1.0957	-0.0235	0.3592	-0.0215	0.3278
79	27.48	-0.09	0.4009	-0.0066	-0.0629	-0.0165	-0.1568	1.1005	-0.0239	0.3598	-0.0218	0.3269
80	27.81	-0.08	0.3952	-0.0064	-0.0623	-0.0162	-0.1576	1.1176	-0.0243	0.3634	-0.0217	0.3252
81	28.11	-0.10	0.3541	-0.0058	-0.0577	-0.0165	-0.1628	1.1210	-0.0249	0.3645	-0.0222	0.3252
82	28.42	-0.10	0.4082	-0.0066	-0.0636	-0.0162	-0.1559	1.1359	-0.0243	0.3670	-0.0214	0.3231
83	28.72	-0.11	0.4133	-0.0066	-0.0642	-0.0160	-0.1554	1.1435	-0.0242	0.3690	-0.0212	0.3227
84	29.04	-0.09	0.3724	-0.0058	-0.0597	-0.0156	-0.1602	1.1703	-0.0242	0.3772	-0.0207	0.3223
85	29.36	-0.11	0.4484	-0.0070	-0.0662	-0.0156	-0.1522	1.1767	-0.0249	0.3779	-0.0212	0.3211
86	29.66	-0.10	0.4160	-0.0063	-0.0645	-0.0153	-0.1551	1.1860	-0.0244	0.3801	-0.0206	0.3205
87	29.98	-0.09	0.3526	-0.0055	-0.0574	-0.0156	-0.1627	1.1862	-0.0253	0.3815	-0.0214	0.3216
88	30.30	-0.07	0.3773	-0.0059	-0.0601	-0.0156	-0.1594	1.1855	-0.0251	0.3805	-0.0212	0.3210
89	30.51	0.01	0.3571	-0.0056	-0.0579	-0.0157	-0.1620	1.1853	-0.0239	0.3808	-0.0202	0.3212

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 49 1.10 1.7 0.0 82W3F12 16.750 0 0 0 0 0 FIXED												
PGINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	-2.36	-0.06	0.0674	-0.0021	-0.0075	-0.0312	-0.1119	-0.1394	0.0077	-0.0353	-0.0556	0.2536
2	-2.03	-0.04	0.0777	-0.0020	-0.0088	-0.0257	-0.1134	-0.1177	0.0064	-0.0273	-0.0548	0.2321
3	-1.40	-0.05	0.0674	-0.0020	-0.0075	-0.0297	-0.1119	-0.0815	0.0044	-0.0185	-0.0546	0.2265
4	-0.87	-0.01	0.0845	-0.0021	-0.0095	-0.0248	-0.1129	-0.0542	0.0027	-0.0104	-0.0498	0.1911
5	-0.35	-0.07	0.0845	-0.0021	-0.0095	-0.0248	-0.1129	-0.0270	0.0002	-0.0022	-0.0074	0.0814
6	0.21	-0.02	0.0830	-0.0023	-0.0068	-0.0283	-0.0824	-0.0052	-0.0016	0.0033	0.3173	-0.6283
7	0.72	-0.04	0.0842	-0.0020	-0.0084	-0.0243	-0.1062	0.0137	-0.0032	0.0095	-0.2335	0.6909
8	1.27	-0.05	0.0847	-0.0032	-0.0045	-0.0384	-0.0529	0.0664	-0.0061	0.0215	-0.1314	0.4625
9	1.76	0.01	0.0839	-0.0033	-0.0031	-0.0399	-0.0375	0.0724	-0.0075	0.0289	-0.1043	0.3995
10	2.27	-0.04	0.0915	-0.0030	-0.0053	-0.0328	-0.0380	0.1029	-0.0090	0.0392	-0.0874	0.3808
11	2.75	-0.02	0.0938	-0.0032	-0.0036	-0.0346	-0.0389	0.1236	-0.0104	0.0492	-0.0845	0.3979
12	3.20	-0.02	0.0878	-0.0029	-0.0042	-0.0310	-0.0483	0.1500	-0.0115	0.0578	-0.0770	0.3852
13	3.69	-0.09	0.0958	-0.0033	-0.0014	-0.0344	-0.0144	0.1711	-0.0125	0.0665	-0.0730	0.3887
14	4.16	-0.06	0.0962	-0.0032	-0.0020	-0.0338	-0.0213	0.2007	-0.0134	0.0763	-0.0668	0.3801
15	4.63	0.0	0.1015	-0.0033	-0.0002	-0.0325	-0.0018	0.2225	-0.0132	0.0845	-0.0595	0.3800
16	5.06	-0.05	0.1042	-0.0033	0.0008	-0.0317	0.0079	0.2525	-0.0139	0.0956	-0.0550	0.3788
17	5.53	-0.07	0.1076	-0.0033	0.0005	-0.0307	0.0042	0.2731	-0.0137	0.1030	-0.0502	0.3772
18	5.98	-0.07	0.1146	-0.0032	0.0053	-0.0284	0.0061	0.3045	-0.0135	0.1171	-0.0443	0.3844
19	6.45	-0.05	0.1014	-0.0032	-0.0001	-0.0316	-0.0011	0.3239	-0.0139	0.1218	-0.0429	0.3761
20	6.89	-0.05	0.1116	-0.0031	0.0050	-0.0282	0.0047	0.3569	-0.0140	0.1316	-0.0393	0.3688
21	7.36	-0.01	0.1150	-0.0028	0.0046	-0.0248	0.0002	0.3795	-0.0139	0.1407	-0.0366	0.3706
22	7.77	-0.03	0.1185	-0.0027	0.0042	-0.0228	0.0033	0.4084	-0.0139	0.1499	-0.0340	0.3670
23	8.21	-0.11	0.1244	-0.0027	0.0048	-0.0221	0.0382	0.4316	-0.0143	0.1589	-0.0332	0.3682
24	8.64	0.04	0.1207	-0.0025	0.0058	-0.0211	0.0482	0.4470	-0.0141	0.1660	-0.0315	0.3712
25	9.03	-0.08	0.1230	-0.0019	0.0018	-0.0159	0.0145	0.4703	-0.0142	0.1731	-0.0303	0.3681
26	9.45	-0.05	0.1300	-0.0022	0.0066	-0.0173	0.0509	0.4905	-0.0141	0.1818	-0.0288	0.3707
27	9.87	-0.06	0.1186	-0.0019	0.0041	-0.0164	0.0347	0.5074	-0.0144	0.1855	-0.0285	0.3655
28	10.28	-0.02	0.1347	-0.0015	0.0042	-0.0111	0.0311	0.5302	-0.0139	0.1956	-0.0262	0.3689
29	10.68	-0.05	0.1418	-0.0016	0.0049	-0.0116	0.0631	0.5578	-0.0132	0.2054	-0.0237	0.3682
30	11.07	-0.05	0.1306	-0.0007	0.0064	-0.0057	0.0491	0.5849	-0.0136	0.2131	-0.0233	0.3643
31	11.46	-0.01	0.1306	-0.0007	0.0064	-0.0054	0.0491	0.6024	-0.0132	0.2197	-0.0220	0.3647
32	11.82	0.0	0.1305	-0.0009	0.0065	-0.0073	0.0497	0.6182	-0.0129	0.2235	-0.0209	0.3615
33	12.19	-0.02	0.1407	0.0	0.0059	0.0	0.0418	0.6369	-0.0124	0.2320	-0.0195	0.3631
34	12.57	-0.01	0.1431	0.0	0.0075	0.0	0.0523	0.6731	-0.0127	0.2388	-0.0189	0.3548
35	12.93	-0.05	0.1408	0.0	0.0052	0.0	0.0371	0.6831	-0.0125	0.2426	-0.0184	0.3552
36	13.30	-0.06	0.1354	0.0	0.0096	0.0	0.0710	0.6986	-0.0123	0.2480	-0.0176	0.3550
37	13.65	-0.03	0.1485	0.0	0.0087	0.0	0.0585	0.7246	-0.0124	0.2553	-0.0172	0.3524
38	14.03	-0.03	0.1509	0.0003	0.0103	0.0020	0.0681	0.7483	-0.0124	0.2618	-0.0166	0.3499
39	14.37	-0.07	0.1389	0.0006	0.0091	0.0047	0.0654	0.7620	-0.0119	0.2676	-0.0156	0.3512
40	14.72	-0.05	0.1419	-0.0002	0.0089	-0.0018	0.0626	0.7735	-0.0120	0.2713	-0.0155	0.3508
41	15.09	-0.06	0.1411	0.0003	0.0115	0.0021	0.0816	0.7917	-0.0127	0.2757	-0.0161	0.3482
42	15.43	-0.06	0.1425	0.0001	0.0085	0.0007	0.0623	0.8048	-0.0134	0.2780	-0.0166	0.3454
43	15.77	-0.06	0.1531	0.0006	0.0077	0.0039	0.0504	0.8325	-0.0135	0.2855	-0.0162	0.3429
44	16.11	-0.07	0.1418	0.0003	0.0115	0.0021	0.0815	0.8538	-0.0133	0.2918	-0.0156	0.3418
45	16.43	-0.06	0.1556	0.0006	0.0099	0.0039	0.0639	0.8697	-0.0131	0.2962	-0.0151	0.3406
46	16.76	-0.06	0.1474	0.0006	0.0134	0.0041	0.0910	0.8905	-0.0132	0.3015	-0.0148	0.3386

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 49 1.10 1.7				0.0	B2W3F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	17.10	-0.07	0.1587	0.0007	0.0103	0.0044	0.0648	0.9091	-0.0129	0.3089	-0.0142	0.3398
48	17.42	-0.08	0.1558	0.0010	0.0095	0.0064	0.0636	0.9249	-0.0130	0.3107	-0.0141	0.3359
49	17.76	-0.09	0.1613	0.0010	0.0118	0.0062	0.0735	0.9367	-0.0131	0.3137	-0.0140	0.3349
50	18.10	-0.05	0.1591	0.0007	0.0096	0.0044	0.0604	0.9520	-0.0132	0.3171	-0.0139	0.3331
51	18.44	-0.07	0.1554	0.0006	0.0100	0.0039	0.0642	0.9623	-0.0132	0.3222	-0.0137	0.3348
52	18.77	-0.07	0.1590	0.0010	0.0158	0.0063	0.0993	0.9892	-0.0136	0.3293	-0.0137	0.3329
53	19.10	-0.08	0.1705	0.0011	0.0126	0.0065	0.0740	1.0031	-0.0134	0.3309	-0.0134	0.3298
54	19.43	-0.05	0.1673	0.0012	0.0123	0.0072	0.0738	1.0198	-0.0133	0.3335	-0.0131	0.3270
55	19.75	-0.07	0.1754	0.0015	0.0151	0.0086	0.0864	1.0308	-0.0136	0.3398	-0.0132	0.3296
56	20.10	-0.11	0.1704	0.0015	0.0126	0.0088	0.0738	1.0496	-0.0127	0.3454	-0.0121	0.3291
57	20.42	-0.10	0.1690	0.0015	0.0153	0.0089	0.0906	1.0608	-0.0128	0.3498	-0.0121	0.3297
58	20.77	-0.09	0.1701	0.0011	0.0126	0.0065	0.0740	1.0697	-0.0127	0.3521	-0.0119	0.3292
59	21.10	-0.08	0.1661	0.0015	0.0136	0.0090	0.0822	1.0839	-0.0123	0.3549	-0.0114	0.3274
60	21.44	-0.10	0.1803	0.0011	0.0171	0.0064	0.0947	1.0990	-0.0123	0.3605	-0.0112	0.3280
61	21.76	-0.10	0.1838	0.0011	0.0166	0.0063	0.0906	1.1040	-0.0123	0.3608	-0.0112	0.3268
62	22.10	-0.07	0.1879	0.0011	0.0145	0.0061	0.0794	1.1179	-0.0123	0.3638	-0.0110	0.3254
63	22.42	-0.07	0.1805	0.0015	0.0170	0.0086	0.0944	1.1329	-0.0123	0.3673	-0.0109	0.3242
64	22.74	-0.09	0.1805	0.0015	0.0170	0.0086	0.0944	1.1343	-0.0127	0.3684	-0.0112	0.3248
65	23.06	-0.08	0.1892	0.0016	0.0184	0.0087	0.0975	1.1469	-0.0128	0.3701	-0.0112	0.3227
66	23.39	-0.07	0.1877	0.0013	0.0211	0.0069	0.1126	1.1540	-0.0131	0.3736	-0.0114	0.3238
67	23.71	-0.08	0.1931	0.0012	0.0230	0.0062	0.1193	1.1633	-0.0131	0.3751	-0.0113	0.3225
68	24.03	-0.11	0.2005	0.0017	0.0209	0.0085	0.1043	1.1705	-0.0134	0.3759	-0.0115	0.3212
69	24.37	-0.09	0.1955	0.0009	0.0235	0.0049	0.1225	1.1786	-0.0134	0.3771	-0.0114	0.3200
70	24.68	-0.11	0.1986	0.0015	0.0173	0.0078	0.0870	1.1858	-0.0140	0.3764	-0.0118	0.3174
71	25.01	-0.10	0.1895	0.0015	0.0164	0.0082	0.0868	1.1911	-0.0141	0.3799	-0.0119	0.3189
72	25.31	-0.10	0.2002	0.0012	0.0196	0.0060	0.0979	1.2042	-0.0146	0.3823	-0.0122	0.3174
73	25.64	-0.09	0.2119	0.0017	0.0219	0.0080	0.1034	1.2156	-0.0142	0.3866	-0.0117	0.3180
74	25.93	-0.11	0.2082	0.0012	0.0224	0.0060	0.1075	1.2189	-0.0145	0.3865	-0.0119	0.3171
75	26.25	-0.10	0.1980	0.0019	0.0178	0.0098	0.0898	1.2316	-0.0144	0.3897	-0.0117	0.3164
76	26.54	-0.08	0.2091	0.0012	0.0197	0.0057	0.0941	1.2362	-0.0147	0.3882	-0.0119	0.3140
77	26.83	-0.12	0.1978	0.0015	0.0172	0.0078	0.0870	1.2315	-0.0156	0.3884	-0.0127	0.3154
78	27.16	-0.10	0.2031	0.0021	0.0197	0.0106	0.0969	1.2459	-0.0153	0.3912	-0.0123	0.3140
79	27.48	-0.09	0.2092	0.0023	0.0202	0.0112	0.0966	1.2630	-0.0157	0.3951	-0.0125	0.3129
80	27.81	-0.08	0.2054	0.0023	0.0212	0.0114	0.1034	1.2653	-0.0155	0.3973	-0.0122	0.3140
81	28.11	-0.10	0.2133	0.0026	0.0240	0.0124	0.1124	1.2627	-0.0162	0.3952	-0.0129	0.3130
82	28.42	-0.10	0.2145	0.0032	0.0220	0.0149	0.1024	1.2743	-0.0164	0.3975	-0.0129	0.3120
83	28.72	-0.11	0.2111	0.0025	0.0217	0.0121	0.1030	1.2771	-0.0167	0.3975	-0.0131	0.3113
84	29.04	-0.09	0.2346	0.0035	0.0259	0.0151	0.1103	1.2918	-0.0161	0.4014	-0.0125	0.3108
85	29.36	-0.11	0.2244	0.0031	0.0208	0.0138	0.0926	1.2947	-0.0173	0.4018	-0.0134	0.3104
86	29.66	-0.10	0.2243	0.0035	0.0262	0.0156	0.1170	1.3001	-0.0172	0.4041	-0.0133	0.3108
87	29.98	-0.09	0.2277	0.0033	0.0259	0.0145	0.1136	1.3071	-0.0171	0.4055	-0.0131	0.3103
88	30.30	-0.07	0.2255	0.0029	0.0285	0.0131	0.1266	1.3075	-0.0176	0.4056	-0.0135	0.3102
89	30.51	0.01	0.2217	0.0033	0.0240	0.0149	0.1081	1.2930	-0.0168	0.4025	-0.0130	0.3113

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	50	0.92	1.7	0.0	B2M2F12	16.750	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP	
1	-2.79	0.01	-0.5736	0.2731	0.2518	0.0295	0.0100	0.1929	-0.4762	
2	-2.65	-0.01	-0.5391	0.2558	0.0844	0.0058	0.0140	0.1929	-0.4746	
3	-2.01	-0.03	-0.4080	0.1653	0.0441	-0.0467	0.0130	0.2015	-0.4051	
4	-1.40	0.03	-0.2677	0.0848	0.1817	-0.0164	0.0170	0.1978	-0.3167	
5	-0.83	-0.03	-0.1273	0.0592	0.0819	-0.0437	0.0140	0.2016	-0.4652	
6	-0.30	-0.02	-0.0614	0.0580	0.1567	-0.0024	0.0110	0.2077	-0.9440	
7	0.26	-0.02	0.0469	0.0253	0.1326	-0.0176	0.0160	0.2077	0.5403	
8	0.77	-0.03	0.1441	0.0293	0.0678	-0.0369	0.0120	0.2133	0.2031	
9	1.31	-0.04	0.2622	0.0229	0.0810	-0.1234	0.0190	0.2140	0.0874	
10	1.82	-0.04	0.3631	-0.0303	0.0423	-0.0232	0.0130	0.2141	-0.0836	
11	2.29	-0.02	0.4549	-0.1010	0.1576	-0.0286	0.0130	0.2146	-0.2220	
12	2.80	-0.03	0.6158	-0.1832	0.0910	-0.0574	0.0160	0.2132	-0.2975	
13	3.27	-0.03	0.7200	-0.3011	0.1042	-0.0809	0.0180	0.2125	-0.4182	
14	3.76	-0.04	0.8573	-0.4033	0.0916	-0.0582	0.0180	0.2144	-0.4704	
15	4.23	-0.04	0.9832	-0.5405	0.0974	-0.0783	0.0190	0.2157	-0.5498	
16	4.69	-0.03	1.1031	-0.7004	0.1124	-0.1063	0.0240	0.2130	-0.6350	
17	5.14	-0.03	1.2450	-0.8782	0.1109	-0.0493	0.0200	0.2130	-0.7053	
18	5.62	-0.03	1.4211	-1.0297	0.1503	-0.1094	0.0220	0.2111	-0.7246	
19	6.05	-0.03	1.5376	-1.2258	0.1413	-0.0648	0.0190	0.2078	-0.7972	
20	6.52	-0.03	1.6659	-1.4004	0.1225	-0.0211	0.0230	0.2067	-0.8406	
21	6.98	-0.06	1.8138	-1.5184	0.0526	-0.1136	0.0190	0.2054	-0.8372	
22	7.44	-0.07	1.9724	-1.7695	0.0882	-0.1515	0.0200	0.2044	-0.8971	
23	7.85	-0.07	2.0606	-1.8650	0.0401	-0.0831	0.0220	0.2036	-0.9051	
24	8.31	-0.07	2.2317	-2.1075	0.0530	-0.0682	0.0190	0.2016	-0.9444	
25	8.73	-0.07	2.3854	-2.3487	0.0473	-0.0692	0.0210	0.1942	-0.9846	
26	9.13	-0.07	2.5234	-2.5458	0.0603	-0.0104	0.0240	0.1942	-1.0089	
27	9.55	-0.06	2.6504	-2.6696	0.1624	-0.1043	0.0230	0.1886	-1.0073	
28	9.97	-0.06	2.8042	-2.9151	0.0593	-0.0290	0.0210	0.1814	-1.0395	
29	10.38	-0.06	2.9402	-3.1054	0.0975	-0.0185	0.0170	0.1776	-1.0562	
30	10.78	-0.07	3.0728	-3.2691	0.0754	-0.0855	0.0180	0.1776	-1.0639	
31	11.18	-0.07	3.2187	-3.4773	0.0123	0.0088	0.0220	0.1719	-1.0803	
32	11.57	-0.06	3.3534	-3.6718	0.0197	-0.0236	0.0170	0.1679	-1.0950	
33	11.93	-0.04	3.4856	-3.8430	0.1440	-0.0016	0.0170	0.1645	-1.1025	
34	12.31	-0.06	3.6286	-4.0622	0.0402	-0.0893	0.0190	0.1600	-1.1195	
35	12.66	-0.05	3.7630	-4.2493	0.0503	-0.0444	0.0160	0.1523	-1.1292	
36	13.04	-0.05	3.9169	-4.4218	0.0905	-0.0137	0.0190	0.1495	-1.1289	
37	13.37	-0.05	4.0201	-4.6222	0.0514	-0.0160	0.0160	0.1462	-1.1498	
38	13.74	-0.06	4.1277	-4.7849	0.0032	-0.0585	0.0100	0.1401	-1.1592	
39	14.10	-0.06	4.2341	-4.9889	-0.0339	0.0415	0.0040	0.1374	-1.1783	
40	14.46	-0.05	4.3741	-5.1309	0.0407	0.1140	-0.0100	0.1335	-1.1730	
41	14.81	-0.06	4.4814	-5.3531	0.0034	0.0202	-0.0120	0.1297	-1.1945	
42	15.15	-0.06	4.6118	-5.5966	0.0402	-0.0273	0.0030	0.1224	-1.2135	
43	15.50	-0.06	4.7375	-5.8346	-0.0085	0.0189	0.0190	0.1204	-1.2316	
44	15.84	-0.06	4.8424	-5.9754	-0.0122	-0.0039	0.0230	0.1217	-1.2340	
45	16.19	-0.07	4.9876	-6.1678	0.0809	-0.0313	0.0220	0.1192	-1.2366	
46	16.52	-0.07	5.1029	-6.3702	0.0100	0.0990	0.0310	0.1126	-1.2483	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	50	0.921-7	0.0	0.2W2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP	
47	16.86	-0.07	5.2664	-6.5261	-0.0081	0.1563	0.0190	0.1112	-1.2392	
48	17.17	-0.08	5.3967	-6.7595	-0.0901	0.1311	0.0200	0.1029	-1.2525	
49	17.50	-0.07	5.5248	-6.8678	-0.0340	0.1126	0.0170	0.0999	-1.2431	
50	17.81	-0.08	5.6009	-7.0773	-0.0491	0.0777	0.0130	0.0961	-1.2636	
51	18.16	-0.09	5.7800	-7.2762	-0.1435	0.1954	0.0050	0.0893	-1.2588	
52	18.48	-0.07	5.9179	-7.4312	-0.0096	0.2244	0.0100	0.0862	-1.2557	
53	18.82	-0.07	6.0121	-7.6031	-0.0353	0.1560	-0.0010	0.0765	-1.2646	
54	19.14	-0.07	6.1254	-7.7717	-0.0525	0.1755	0.0080	0.0805	-1.2688	
55	19.46	-0.07	6.2112	-7.9218	-0.0821	0.2409	-0.0120	0.0799	-1.2754	
56	19.79	-0.07	6.3720	-8.1109	-0.0609	0.3212	-0.0480	0.0776	-1.2729	
57	20.11	-0.07	6.4257	-8.2116	-0.1074	0.3393	-0.0680	0.0742	-1.2771	
58	20.46	-0.06	6.5517	-8.3755	-0.0548	0.3687	-0.0770	0.0721	-1.2784	
59	20.79	-0.08	6.6401	-8.5333	-0.1726	0.3376	-0.0760	0.0710	-1.2851	
60	21.15	-0.07	6.8182	-8.7376	-0.1145	0.3513	-0.0810	0.0630	-1.2815	
61	21.46	-0.06	6.8815	-8.8762	-0.0378	0.3359	-0.0860	0.0561	-1.2899	
62	21.78	-0.08	6.9929	-8.9751	-0.1068	0.4215	-0.0900	0.0537	-1.2835	
63	22.06	-0.07	7.0701	-9.1192	-0.0374	0.4413	-0.1000	0.0501	-1.2898	
64	22.39	-0.07	7.2157	-9.2720	-0.0298	0.4147	-0.0970	0.0436	-1.2850	
65	22.70	-0.08	7.3406	-9.3620	-0.0576	0.3816	-0.1040	0.0384	-1.2754	
66	23.03	-0.08	7.4467	-9.4745	-0.0537	0.2911	-0.1020	0.0338	-1.2723	
67	23.33	-0.10	7.5186	-9.5792	-0.1053	0.2744	-0.1330	0.0350	-1.2475	
68	23.66	-0.09	7.5870	-9.4670	-0.0922	0.3140	-0.1260	0.0315	-1.2478	
69	23.95	-0.09	7.7145	-9.5884	-0.0115	0.2381	-0.1140	0.0273	-1.2429	
70	24.28	-0.09	7.7974	-9.6965	-0.0415	0.2381	-0.1080	0.0210	-1.2436	
71	24.56	-0.08	7.9128	-9.7210	0.0118	0.2015	-0.1270	0.0233	-1.2285	
72	24.92	-0.08	8.0336	-9.8053	-0.0161	0.2675	-0.1330	0.0174	-1.2205	
73	25.18	-0.09	8.1776	-9.9079	-0.0294	0.3551	-0.1080	0.0149	-1.2116	
74	25.53	-0.11	8.3086	-9.9793	-0.1216	0.2622	-0.1140	0.0102	-1.2011	
75	25.78	-0.10	8.3532	-10.0137	-0.0646	0.2274	-0.1260	0.0047	-1.1988	
76	26.11	-0.11	8.5292	-10.0401	-0.1266	0.3272	-0.1150	0.0035	-1.1771	
77	26.39	-0.10	8.6338	-10.1215	-0.0146	0.2024	-0.1290	-0.0028	-1.1723	
78	26.68	-0.10	8.7650	-10.1862	-0.0445	0.1513	-0.1220	-0.0068	-1.1622	
79	27.02	-0.11	8.8881	-10.1957	-0.1025	0.2690	-0.1220	-0.0120	-1.1471	
80	27.33	-0.11	8.9557	-10.2433	-0.1292	0.3078	-0.1250	-0.0121	-1.1438	
81	27.62	-0.09	9.1090	-10.2059	-0.0241	0.2487	-0.1340	-0.0215	-1.1204	
82	27.93	-0.10	9.2084	-10.1061	-0.0822	0.2410	-0.1330	-0.0220	-1.0975	
83	28.22	-0.10	9.3086	-10.0854	-0.0606	0.2738	-0.1500	-0.0231	-1.0835	
84	28.53	-0.08	9.4426	-10.0030	0.0354	0.1724	-0.1530	-0.0245	-1.0594	
85	28.84	-0.11	9.4960	-10.0408	-0.0388	0.1163	-0.1490	-0.0323	-1.0574	
86	29.16	-0.09	9.6601	-9.9607	0.0080	0.2388	-0.1560	-0.0394	-1.0311	
87	29.47	-0.12	9.7043	-9.9025	-0.0263	-0.2132	-0.1350	-0.0550	-1.0204	
88	29.80	-0.12	9.7591	-9.6503	-0.1146	0.0164	-0.1480	-0.0538	-0.9888	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			50	0.92	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPI1	YCPI1	CNF2	CH2	CB2	XCPI2	YCPI2	
1	-2.79	0.01	-0.1656	0.0012	0.0241	-0.0075	-0.1456	-0.0420	0.0042	-0.0370	-0.1012	0.8808	
2	-2.65	-0.01	-0.1656	0.0012	0.0241	-0.0075	-0.1456	-0.0331	0.0038	-0.0359	-0.1148	1.0855	
3	-2.01	-0.03	-0.2691	0.0013	0.0520	-0.0050	-0.1934	-0.0186	0.0023	-0.0253	-0.1236	1.3601	
4	-1.40	0.03	-0.1673	0.0013	0.0242	-0.0078	-0.1450	-0.0046	0.0014	-0.0196	-0.3152	4.2680	
5	-0.83	-0.03	-0.1640	0.0012	0.0239	-0.0076	-0.1461	0.0078	0.0009	-0.0138	0.1154	-1.7693	
6	-0.30	-0.02	-0.1673	0.0013	0.0242	-0.0081	-0.1450	0.0131	0.0005	-0.0101	0.0382	-0.7737	
7	0.26	-0.02	-0.1624	0.0012	0.0237	-0.0077	-0.1458	0.0216	0.0001	-0.0073	0.0069	-0.3381	
8	0.77	-0.03	-0.1624	0.0012	0.0237	-0.0077	-0.1458	0.0269	0.0	-0.0038	0.0	-0.1426	
9	1.31	-0.04	-0.1624	0.0012	0.0238	-0.0074	-0.1465	0.0367	-0.0004	0.0004	-0.0123	0.0117	
10	1.82	-0.04	-0.1559	0.0011	0.0230	-0.0074	-0.1479	0.0430	-0.0008	0.0043	-0.0178	0.0954	
11	2.29	-0.02	-0.1508	0.0011	0.0224	-0.0073	-0.1489	0.0576	-0.0015	0.0098	-0.0269	0.1700	
12	2.80	-0.03	-0.1509	0.0011	0.0224	-0.0073	-0.1486	0.0744	-0.0025	0.0175	-0.0336	0.2351	
13	3.27	-0.03	-0.1557	0.0011	0.0230	-0.0071	-0.1478	0.0898	-0.0028	0.0239	-0.0317	0.2664	
14	3.76	-0.04	-0.1560	0.0012	0.0230	-0.0077	-0.1476	0.1069	-0.0037	0.0311	-0.0346	0.2911	
15	4.23	-0.04	-0.1624	0.0012	0.0238	-0.0077	-0.1465	0.1337	-0.0056	0.0423	-0.0423	0.3168	
16	4.69	-0.03	-0.2527	0.0012	0.0502	-0.0047	-0.1986	0.1474	-0.0068	0.0504	-0.0461	0.3420	
17	5.14	-0.03	-0.2544	0.0012	0.0504	-0.0047	-0.1982	0.1670	-0.0074	0.0589	-0.0446	0.3530	
18	5.62	-0.03	-0.1623	0.0012	0.0237	-0.0074	-0.1461	0.1853	-0.0086	0.0673	-0.0464	0.3634	
19	6.05	-0.03	-0.1623	0.0012	0.0237	-0.0074	-0.1461	0.2094	-0.0092	0.0765	-0.0442	0.3652	
20	6.52	-0.03	-0.1558	0.0011	0.0230	-0.0071	-0.1475	0.2323	-0.0096	0.0838	-0.0415	0.3608	
21	6.98	-0.06	-0.1640	0.0012	0.0235	-0.0076	-0.1461	0.2472	-0.0097	0.0928	-0.0394	0.3753	
22	7.44	-0.07	-0.1575	0.0012	0.0232	-0.0076	-0.1474	0.2742	-0.0094	0.1019	-0.0343	0.3715	
23	7.85	-0.07	-0.1623	0.0012	0.0237	-0.0074	-0.1461	0.2860	-0.0093	0.1086	-0.0323	0.3769	
24	8.31	-0.07	-0.1571	0.0011	0.0231	-0.0070	-0.1474	0.3130	-0.0098	0.1187	-0.0313	0.3792	
25	8.73	-0.07	-0.1554	0.0010	0.0229	-0.0068	-0.1475	0.3358	-0.0101	0.1269	-0.0301	0.3779	
26	9.13	-0.07	-0.1555	0.0011	0.0230	-0.0071	-0.1478	0.3616	-0.0104	0.1350	-0.0289	0.3733	
27	9.55	-0.06	-0.1619	0.0012	0.0236	-0.0074	-0.1461	0.3780	-0.0108	0.1427	-0.0286	0.3774	
28	9.97	-0.06	-0.2519	0.0010	0.0501	-0.0042	-0.1987	0.4022	-0.0113	0.1515	-0.0281	0.3767	
29	10.38	-0.06	-0.1570	0.0011	0.0232	-0.0070	-0.1477	0.4237	-0.0121	0.1590	-0.0287	0.3752	
30	10.78	-0.07	-0.2536	0.0011	0.0503	-0.0043	-0.1983	0.4464	-0.0129	0.1681	-0.0289	0.3767	
31	11.18	-0.07	-0.1635	0.0012	0.0238	-0.0073	-0.1457	0.4650	-0.0131	0.1746	-0.0283	0.3756	
32	11.57	-0.06	-0.1635	0.0012	0.0238	-0.0073	-0.1457	0.4880	-0.0134	0.1841	-0.0277	0.3789	
33	11.93	-0.04	-0.1570	0.0011	0.0231	-0.0070	-0.1470	0.5019	-0.0134	0.1865	-0.0268	0.3756	
34	12.31	-0.06	-0.1456	0.0009	0.0219	-0.0062	-0.1503	0.5225	-0.0136	0.1953	-0.0260	0.3738	
35	12.66	-0.05	-0.1456	0.0009	0.0219	-0.0062	-0.1503	0.5443	-0.0133	0.2010	-0.0245	0.3692	
36	13.04	-0.05	-0.1473	0.0009	0.0220	-0.0064	-0.1495	0.5642	-0.0129	0.2080	-0.0229	0.3687	
37	13.37	-0.05	-0.1391	0.0007	0.0211	-0.0054	-0.1520	0.5800	-0.0127	0.2131	-0.0219	0.3673	
38	13.74	-0.06	-0.1342	0.0007	0.0206	-0.0056	-0.1534	0.6018	-0.0126	0.2189	-0.0209	0.3638	
39	14.10	-0.06	-0.1293	0.0006	0.0200	-0.0046	-0.1548	0.6220	-0.0122	0.2249	-0.0196	0.3615	
40	14.46	-0.05	-0.0917	0.0000	0.0158	-0.0005	-0.1728	0.6394	-0.0119	0.2294	-0.0186	0.3589	
41	14.81	-0.06	-0.1869	0.0	0.0428	0.0	-0.2291	0.6662	-0.0114	0.2365	-0.0171	0.3550	
42	15.15	-0.06	-0.1936	0.0001	0.0436	-0.0005	-0.2252	0.6870	-0.0104	0.2427	-0.0152	0.3533	
43	15.50	-0.06	-0.1000	0.0001	0.0168	-0.0013	-0.1678	0.7100	-0.0094	0.2495	-0.0132	0.3514	
44	15.84	-0.06	-0.1231	0.0006	0.0194	-0.0049	-0.1574	0.7184	-0.0088	0.2530	-0.0122	0.3521	
45	16.19	-0.07	-0.2201	0.0006	0.0466	-0.0027	-0.2115	0.7376	-0.0079	0.2584	-0.0107	0.3503	
46	16.52	-0.07	-0.0987	0.0002	0.0166	-0.0020	-0.1683	0.7574	-0.0067	0.2642	-0.0089	0.3488	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER/NSRDC/

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		50		0.92 1.7		0.0 82WFL2		16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2	
47	16.86	-0.07	-0.2221	0.0007	0.0468	-0.0032	-0.2107	0.7703	-0.0058	0.2681	-0.0076	0.3480	
48	17.17	-0.08	-0.1892	0.0001	0.0431	-0.0005	-0.2281	0.7927	-0.0044	0.2727	-0.0056	0.3441	
49	17.50	-0.07	-0.1450	0.0006	0.0195	-0.0052	-0.1564	0.8048	-0.0034	0.2750	-0.0043	0.3417	
50	17.81	-0.08	-0.1828	0.0	0.0425	0.0	-0.2324	0.8225	-0.0021	0.2781	-0.0026	0.3381	
51	18.16	-0.09	-0.0741	-0.0002	0.0138	0.0027	-0.1864	0.8461	-0.0014	0.2825	-0.0017	0.3339	
52	18.48	-0.07	-0.1782	-0.0001	0.0419	0.0006	-0.2352	0.8588	-0.0000	0.2886	-0.0001	0.3360	
53	18.82	-0.07	-0.1618	-0.0003	0.0401	0.0019	-0.2477	0.8764	0.0012	0.2922	0.0014	0.3334	
54	19.14	-0.07	-0.1784	-0.0001	0.0419	0.0006	-0.2352	0.8996	0.0031	0.2985	0.0034	0.3318	
55	19.46	-0.07	-0.1127	-0.0011	0.0346	0.0102	-0.3074	0.9157	0.0043	0.3025	0.0047	0.3304	
56	19.79	-0.07	0.0062	-0.0015	0.0049	-0.2419	0.7848	0.9353	0.0057	0.3065	0.0061	0.3277	
57	20.11	-0.07	0.0457	-0.0021	0.0004	-0.0459	0.0094	0.9518	0.0068	0.3089	0.0071	0.3245	
58	20.46	-0.06	-0.0634	-0.0020	0.0292	0.0315	-0.4602	0.9654	0.0083	0.3121	0.0086	0.3233	
59	20.79	-0.08	-0.0355	-0.0024	0.0260	0.0676	-0.7316	0.9788	0.0090	0.3146	0.0092	0.3214	
60	21.15	-0.07	0.0573	-0.0023	-0.0009	-0.0410	-0.0158	1.0004	0.0099	0.3198	0.0099	0.3196	
61	21.46	-0.06	0.0738	-0.0026	-0.0027	-0.0352	-0.0367	1.0242	0.0115	0.3239	0.0112	0.3162	
62	21.78	-0.08	0.0189	-0.0033	0.0199	-0.1746	1.0528	1.0392	0.0119	0.3266	0.0114	0.3143	
63	22.06	-0.07	0.1298	-0.0034	-0.0090	-0.0266	-0.0697	1.0498	0.0126	0.3303	0.0120	0.3146	
64	22.39	-0.07	0.0073	-0.0031	0.0212	-0.4246	2.9086	1.0715	0.0127	0.3362	0.0118	0.3138	
65	22.70	-0.08	0.0322	-0.0035	0.0184	-0.1102	0.5723	1.0911	0.0140	0.3398	0.0128	0.3114	
66	23.03	-0.08	0.1071	-0.0032	-0.0064	-0.0303	-0.0599	1.0981	0.0152	0.3428	0.0139	0.3122	
67	23.33	-0.10	0.0421	-0.0037	0.0174	-0.0891	0.4140	1.1189	0.0175	0.3465	0.0156	0.3097	
68	23.66	-0.09	0.0257	-0.0035	0.0192	-0.1362	0.7457	1.1345	0.0175	0.3494	0.0155	0.3080	
69	23.95	-0.09	-0.0007	-0.0031	0.0222	4.4992	-31.6608	1.1481	0.0185	0.3531	0.0161	0.3075	
70	24.28	-0.09	0.0027	-0.0033	0.0219	-1.2220	8.1110	1.1586	0.0198	0.3543	0.0171	0.3058	
71	24.56	-0.08	-0.0022	-0.0033	0.0225	1.4997	-10.2122	1.1737	0.0212	0.3580	0.0181	0.3050	
72	24.92	-0.08	0.0095	-0.0035	0.0212	-0.3736	2.2280	1.1862	0.0220	0.3612	0.0186	0.3045	
73	25.18	-0.09	-0.0404	-0.0027	0.0268	0.0668	-0.6643	1.1988	0.0219	0.3647	0.0183	0.3042	
74	25.53	-0.11	-0.0304	-0.0029	0.0257	0.0954	-0.8444	1.2097	0.0237	0.3658	0.0196	0.3024	
75	25.78	-0.10	-0.0521	-0.0025	0.0281	0.0480	-0.5401	1.2141	0.0243	0.3656	0.0200	0.3011	
76	26.11	-0.11	-0.0805	-0.0020	0.0314	0.0248	-0.3898	1.2302	0.0249	0.3680	0.0202	0.2992	
77	26.39	-0.10	-0.0406	-0.0026	0.0269	0.0640	-0.6619	1.2429	0.0259	0.3724	0.0209	0.2996	
78	26.68	-0.10	-0.0837	-0.0021	0.0317	0.0251	-0.3789	1.2477	0.0269	0.3712	0.0216	0.2975	
79	27.02	-0.11	-0.0507	-0.0024	0.0280	0.0473	-0.5524	1.2633	0.0283	0.3732	0.0224	0.2955	
80	27.33	-0.11	-0.0858	-0.0018	0.0320	0.0216	-0.3731	1.2632	0.0280	0.3742	0.0222	0.2963	
81	27.62	-0.09	0.0026	-0.0032	0.0221	-1.2498	8.4871	1.2709	0.0328	0.3708	0.0258	0.2918	
82	27.93	-0.10	0.0751	-0.0028	-0.0028	-0.0379	-0.0370	1.2594	0.0359	0.3658	0.0285	0.2904	
83	28.22	-0.10	0.0995	-0.0047	0.0112	-0.0477	0.1121	1.2445	0.0398	0.3585	0.0320	0.2881	
84	28.53	-0.08	0.1764	-0.0057	0.0025	-0.0326	0.0141	1.2391	0.0402	0.3475	0.0325	0.2804	
85	28.84	-0.11	0.1262	-0.0049	0.0083	-0.0392	0.0654	1.2508	0.0412	0.3554	0.0330	0.2841	
86	29.16	-0.09	0.2424	-0.0052	-0.0216	-0.0217	-0.0892	1.2397	0.0396	0.3483	0.0320	0.2810	
87	29.47	-0.12	0.0241	-0.0033	0.0197	-0.1369	0.8187	1.2512	0.0388	0.3526	0.0310	0.2818	
88	29.80	-0.12	-0.0145	-0.0026	0.0241	0.1827	-1.6599	1.2409	0.0351	0.3495	0.0283	0.2816	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 50 0.92 1.7			0.0	B2W2F12	16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPE3	YCPE3	CNF4	CH4	C84	XCPE4	YCPE4
1	-2.79	0.01	0.0434	0.0025	-0.0086	0.0576	-0.1990	-0.0546	0.0047	-0.0245	-0.0870	0.4486
2	-2.65	-0.01	0.0435	0.0028	-0.0087	0.0655	-0.2001	-0.0465	0.0040	-0.0222	-0.0860	0.4773
3	-2.01	-0.03	0.0434	0.0025	-0.0086	0.0576	-0.1990	-0.0268	0.0029	-0.0163	-0.1101	0.6093
4	-1.40	0.03	0.0433	0.0021	-0.0087	0.0496	-0.2003	-0.0101	0.0018	-0.0098	-0.1831	0.9669
5	-0.83	-0.03	0.0549	0.0018	-0.0092	0.0337	-0.1677	0.0	0.0015	-0.0054	0.0015	-0.0054
6	-0.30	-0.02	0.0494	0.0013	-0.0064	0.0263	-0.1303	0.0113	0.0004	-0.0022	0.0398	-0.1978
7	0.26	-0.02	0.0449	0.0010	-0.0051	0.0234	-0.1144	0.0248	-0.0009	0.0018	-0.0383	0.0711
8	0.77	-0.03	0.0568	0.0006	-0.0065	0.0106	-0.1140	0.0373	-0.0017	0.0055	-0.0469	0.1482
9	1.31	-0.04	0.0607	0.0001	-0.0065	0.0025	-0.1132	0.0536	-0.0021	0.0085	-0.0392	0.1578
10	1.82	-0.04	0.0607	0.0001	-0.0065	0.0025	-0.1132	0.0618	-0.0029	0.0129	-0.0477	0.2086
11	2.29	-0.02	0.0724	0.0002	-0.0075	0.0028	-0.1032	0.0795	-0.0037	0.0204	-0.0472	0.2565
12	2.80	-0.03	0.0677	-0.0003	-0.0062	-0.0052	-0.0922	0.0998	-0.0050	0.0269	-0.0506	0.2701
13	3.27	-0.03	0.0587	-0.0006	-0.0036	-0.0102	-0.0620	0.1249	-0.0068	0.0349	-0.0548	0.2796
14	3.76	-0.04	0.0669	-0.0006	-0.0046	-0.0090	-0.0689	0.1446	-0.0077	0.0415	-0.0532	0.2869
15	4.23	-0.04	0.0745	-0.0007	-0.0048	-0.0094	-0.0641	0.1695	-0.0096	0.0512	-0.0566	0.3019
16	4.69	-0.03	0.0650	-0.0010	-0.0013	-0.0154	-0.0206	0.2027	-0.0111	0.0607	-0.0548	0.2997
17	5.14	-0.03	0.0683	-0.0010	-0.0003	-0.0146	-0.0050	0.2293	-0.0119	0.0682	-0.0521	0.2975
18	5.62	-0.03	0.0624	-0.0014	0.0034	-0.0232	0.0544	0.2544	-0.0130	0.0779	-0.0513	0.3061
19	6.05	-0.03	0.0717	-0.0014	0.0001	-0.0202	0.0013	0.2743	-0.0135	0.0864	-0.0494	0.3150
20	6.52	-0.03	0.0623	-0.0017	0.0034	-0.0281	0.0539	0.3036	-0.0135	0.0945	-0.0444	0.3112
21	6.98	-0.06	0.0623	-0.0017	0.0034	-0.0281	0.0539	0.3195	-0.0138	0.0992	-0.0432	0.3104
22	7.44	-0.07	0.0744	-0.0017	0.0020	-0.0235	0.0268	0.3467	-0.0137	0.1113	-0.0396	0.3211
23	7.85	-0.07	0.0740	-0.0018	0.0028	-0.0250	0.0373	0.3652	-0.0142	0.1190	-0.0390	0.3258
24	8.31	-0.07	0.0740	-0.0014	0.0028	-0.0189	0.0373	0.3933	-0.0139	0.1276	-0.0355	0.3243
25	8.73	-0.07	0.0718	-0.0018	0.0068	-0.0258	0.0951	0.4243	-0.0144	0.1386	-0.0340	0.3266
26	9.13	-0.07	0.0606	-0.0017	0.0065	-0.0289	0.1071	0.4441	-0.0149	0.1469	-0.0337	0.3307
27	9.55	-0.06	0.0833	-0.0020	0.0063	-0.0246	0.0751	0.4676	-0.0152	0.1541	-0.0325	0.3296
28	9.97	-0.06	0.0741	-0.0018	0.0095	-0.0243	0.1281	0.4952	-0.0153	0.1643	-0.0310	0.3318
29	10.38	-0.06	0.0742	-0.0017	0.0094	-0.0229	0.1270	0.5176	-0.0155	0.1707	-0.0300	0.3297
30	10.78	-0.07	0.0742	-0.0017	0.0094	-0.0229	0.1270	0.5387	-0.0160	0.1783	-0.0297	0.3310
31	11.18	-0.07	0.0743	-0.0013	0.0095	-0.0182	0.1273	0.5578	-0.0158	0.1838	-0.0284	0.3295
32	11.57	-0.06	0.0743	-0.0013	0.0095	-0.0182	0.1273	0.5794	-0.0157	0.1917	-0.0271	0.3308
33	11.93	-0.04	0.0806	-0.0017	0.0118	-0.0211	0.1459	0.5942	-0.0157	0.1971	-0.0264	0.3317
34	12.31	-0.06	0.0885	-0.0013	0.0116	-0.0153	0.1310	0.6232	-0.0155	0.2068	-0.0249	0.3318
35	12.66	-0.05	0.0810	-0.0008	0.0117	-0.0099	0.1443	0.6410	-0.0154	0.2116	-0.0240	0.3301
36	13.04	-0.05	0.0931	-0.0009	0.0102	-0.0097	0.1098	0.6597	-0.0151	0.2179	-0.0230	0.3303
37	13.37	-0.05	0.0883	-0.0009	0.0123	-0.0102	0.1396	0.6835	-0.0153	0.2235	-0.0224	0.3271
38	13.74	-0.06	0.0839	-0.0008	0.0136	-0.0095	0.1016	0.7022	-0.0153	0.2314	-0.0218	0.3295
39	14.10	-0.06	0.0958	-0.0012	0.0122	-0.0125	0.1276	0.7201	-0.0146	0.2383	-0.0203	0.3310
40	14.46	-0.05	0.0881	-0.0012	0.0124	-0.0136	0.1403	0.7442	-0.0141	0.2448	-0.0190	0.3289
41	14.81	-0.06	0.0956	-0.0008	0.0130	-0.0089	0.1355	0.7605	-0.0130	0.2521	-0.0171	0.3315
42	15.15	-0.06	0.0951	-0.0002	0.0146	-0.0021	0.1534	0.7886	-0.0120	0.2601	-0.0152	0.3298
43	15.50	-0.06	0.0967	-0.0004	0.0188	-0.0041	0.1946	0.8125	-0.0109	0.2695	-0.0134	0.3317
44	15.84	-0.06	0.1069	-0.0002	0.0139	-0.0019	0.1302	0.8245	-0.0099	0.2734	-0.0120	0.3315
45	16.19	-0.07	0.0936	-0.0000	0.0177	-0.0005	0.1890	0.8445	-0.0092	0.2783	-0.0109	0.3295
46	16.52	-0.07	0.1075	-0.0000	0.0132	-0.0005	0.1230	0.8677	-0.0079	0.2891	-0.0091	0.3332

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI		CONF		L		DEL1		DEL2		DEL3		DEL4		TRANSITION			
6		50		0.92		L.7		0.0		0.2W2F12		16.750		0		0		0		0		FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4											
47	16.86	-0.07	0.0953	-0.0002	0.0146	-0.0021	0.1527	0.8779	-0.0072	0.2906	-0.0083	0.3311											
48	17.17	-0.08	0.1116	-0.0000	0.0127	-0.0004	0.1137	0.9036	-0.0059	0.2984	-0.0065	0.3302											
49	17.50	-0.07	0.1094	0.0003	0.0175	0.0027	0.1595	0.9157	-0.0049	0.3050	-0.0053	0.3331											
50	17.81	-0.08	0.1092	-0.0000	0.0175	-0.0005	0.1601	0.9348	-0.0031	0.3109	-0.0033	0.3326											
51	18.16	-0.09	0.1078	0.0003	0.0131	0.0032	0.1217	0.9474	-0.0015	0.3156	-0.0016	0.3331											
52	18.48	-0.07	0.1096	0.0004	0.0175	0.0036	0.1599	0.9666	-0.0012	0.3212	-0.0012	0.3323											
53	18.82	-0.07	0.1203	0.0009	0.0193	0.0075	0.1603	0.9787	0.0006	0.3260	0.0006	0.3331											
54	19.14	-0.07	0.1122	0.0004	0.0128	0.0036	0.1140	0.9889	0.0023	0.3283	0.0023	0.3320											
55	19.46	-0.07	0.1106	0.0004	0.0160	0.0036	0.1442	1.0064	0.0033	0.3334	0.0033	0.3312											
56	19.79	-0.07	0.1098	0.0004	0.0175	0.0036	0.1593	1.0168	0.0048	0.3373	0.0048	0.3317											
57	20.11	-0.07	0.1165	0.0009	0.0197	0.0077	0.1693	1.0375	0.0057	0.3427	0.0055	0.3303											
58	20.46	-0.06	0.1221	0.0004	0.0161	0.0033	0.1317	1.0482	0.0064	0.3449	0.0061	0.3290											
59	20.79	-0.08	0.1221	0.0013	0.0168	0.0106	0.1375	1.0659	0.0072	0.3508	0.0068	0.3291											
60	21.15	-0.07	0.1210	0.0014	0.0192	0.0120	0.1588	1.0840	0.0078	0.3554	0.0072	0.3279											
61	21.46	-0.06	0.1212	0.0020	0.0192	0.0165	0.1583	1.0963	0.0085	0.3603	0.0078	0.3287											
62	21.78	-0.08	0.1269	0.0020	0.0156	0.0158	0.1228	1.1088	0.0092	0.3647	0.0083	0.3289											
63	22.06	-0.07	0.1413	0.0020	0.0177	0.0145	0.1251	1.1266	0.0097	0.3681	0.0087	0.3267											
64	22.39	-0.07	0.1337	0.0021	0.0178	0.0161	0.1335	1.1327	0.0108	0.3713	0.0096	0.3278											
65	22.70	-0.08	0.1298	0.0031	0.0190	0.0243	0.1468	1.1451	0.0119	0.3753	0.0104	0.3277											
66	23.03	-0.08	0.1163	0.0032	0.0228	0.0279	0.1465	1.1557	0.0122	0.3777	0.0106	0.3268											
67	23.33	-0.10	0.1442	0.0036	0.0211	0.0253	0.1467	1.0945	0.0252	0.3607	0.0230	0.3296											
68	23.66	-0.09	0.1286	0.0033	0.0214	0.0257	0.1668	1.1096	0.0256	0.3644	0.0231	0.3284											
69	23.95	-0.09	0.1329	0.0032	0.0210	0.0241	0.1579	1.1181	0.0253	0.3694	0.0226	0.3304											
70	24.28	-0.09	0.1404	0.0036	0.0217	0.0260	0.1544	1.1433	0.0241	0.3756	0.0211	0.3285											
71	24.56	-0.08	0.1432	0.0039	0.0244	0.0272	0.1705	1.1429	0.0258	0.3748	0.0226	0.3280											
72	24.92	-0.08	0.1449	0.0043	0.0220	0.0300	0.1517	1.1608	0.0267	0.3777	0.0230	0.3254											
73	25.18	-0.09	0.1353	0.0038	0.0179	0.0285	0.1322	1.1704	0.0277	0.3828	0.0237	0.3271											
74	25.53	-0.11	0.1423	0.0043	0.0201	0.0306	0.1414	1.1803	0.0278	0.3861	0.0235	0.3271											
75	25.78	-0.10	0.1557	0.0040	0.0235	0.0260	0.1534	1.1882	0.0289	0.3875	0.0244	0.3261											
76	26.11	-0.11	0.1340	0.0040	0.0210	0.0298	0.1571	1.2008	0.0294	0.3905	0.0245	0.3252											
77	26.39	-0.10	0.1498	0.0040	0.0208	0.0267	0.1390	1.2076	0.0293	0.3917	0.0243	0.3244											
78	26.68	-0.10	0.1499	0.0043	0.0208	0.0240	0.1391	1.2138	0.0308	0.3938	0.0254	0.3244											
79	27.02	-0.11	0.1501	0.0043	0.0208	0.0290	0.1387	1.2107	0.0314	0.3931	0.0259	0.3247											
80	27.33	-0.11	0.1578	0.0039	0.0208	0.0250	0.1317	1.2195	0.0323	0.3930	0.0265	0.3223											
81	27.62	-0.09	0.1613	0.0051	0.0226	0.0316	0.1404	1.2268	0.0320	0.3954	0.0261	0.3223											
82	27.93	-0.10	0.1584	0.0048	0.0267	0.0306	0.1306	1.2325	0.0313	0.3967	0.0254	0.3219											
83	28.22	-0.10	0.1556	0.0052	0.0263	0.0334	0.1693	1.2388	0.0309	0.3975	0.0250	0.3209											
84	28.53	-0.08	0.1686	0.0061	0.0250	0.0365	0.1482	1.2453	0.0295	0.4002	0.0237	0.3214											
85	28.84	-0.11	0.1561	0.0057	0.0264	0.0365	0.1692	1.2468	0.0303	0.3978	0.0243	0.3191											
86	29.16	-0.09	0.1730	0.0064	0.0244	0.0370	0.1413	1.2540	0.0304	0.3981	0.0243	0.3175											
87	29.47	-0.12	0.1766	0.0063	0.0256	0.0357	0.1452	1.2339	0.0292	0.3835	0.0237	0.3108											
88	29.80	-0.12	0.1761	0.0056	0.0265	0.0318	0.1504	1.2052	0.0251	0.3678	0.0209	0.3052											

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 51 0.97 1.7			0.0	B2W2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.80	-0.05	-0.5902	0.3274	0.1435	-0.1729	0.0240	0.2819	-0.5547	
2	-2.44	-0.05	-0.4790	0.2547	0.1015	-0.0401	0.0180	0.2847	-0.5317	
3	-1.92	-0.04	-0.3457	0.1820	0.1421	-0.0709	0.0170	0.2877	-0.5264	
4	-1.28	-0.06	-0.2666	0.1262	0.1156	-0.0388	0.0200	0.2885	-0.4735	
5	-0.73	-0.06	-0.1413	0.0838	0.1586	-0.0880	0.0220	0.2958	-0.5432	
6	-0.18	-0.06	-0.0587	0.0462	0.1266	-0.0172	0.0170	0.2978	-0.7867	
7	0.36	-0.07	0.0890	0.0344	0.0554	-0.0246	0.0160	0.2987	0.3865	
8	0.91	-0.06	0.2053	0.0046	0.0965	0.0289	0.0160	0.2976	0.0223	
9	1.40	-0.07	0.3126	-0.0636	0.0898	-0.0967	0.0200	0.2984	-0.2036	
10	1.95	-0.07	0.4426	-0.1178	-0.0052	-0.0397	0.0710	0.2968	-0.2660	
11	2.42	-0.04	0.5414	-0.2051	0.2350	-0.1620	0.0170	0.2975	-0.3788	
12	2.89	-0.03	0.6232	-0.2796	0.1024	-0.1563	0.0230	0.3025	-0.4486	
13	3.38	-0.05	0.7179	-0.4141	0.1776	-0.1196	0.0220	0.2990	-0.5324	
14	3.84	-0.06	0.8909	-0.5133	0.1146	-0.0797	0.0240	0.2936	-0.5762	
15	4.32	-0.06	1.0380	-0.6832	0.2683	-0.1956	0.0240	0.2970	-0.6583	
16	4.76	-0.05	1.1496	-0.7806	0.1544	-0.0482	0.0260	0.2965	-0.6790	
17	5.25	-0.05	1.2551	-0.9383	0.1053	-0.1514	0.0290	0.2949	-0.7476	
18	5.71	-0.07	1.4337	-1.1173	0.1061	-0.1017	0.0230	0.2929	-0.7193	
19	6.18	-0.08	1.5977	-1.2949	-0.1081	0.0783	0.0220	0.2930	-0.8105	
20	6.62	-0.04	1.6935	-1.4200	0.2050	-0.1430	0.0200	0.2886	-0.8385	
21	7.09	-0.08	1.8587	-1.5753	0.1542	-0.2288	0.0230	0.2880	-0.8475	
22	7.52	-0.07	1.9492	-1.7711	0.1170	-0.1648	0.0230	0.2889	-0.9086	
23	7.96	-0.02	2.1077	-1.9939	0.0148	-0.0057	0.0250	0.2794	-0.9460	
24	8.41	0.01	2.2331	-2.1425	0.2685	-0.2219	0.0260	0.2743	-0.9594	
25	8.83	-0.07	2.4154	-2.3757	0.0780	-0.1232	0.0200	0.2715	-0.9636	
26	9.25	-0.10	2.5071	-2.4690	0.0781	-0.0023	0.0280	0.2722	-0.9848	
27	9.65	-0.10	2.6538	-2.6694	0.0782	-0.0775	0.0220	0.2651	-1.0059	
28	10.09	-0.08	2.8287	-2.8574	0.0920	-0.0268	0.0240	0.2603	-1.0101	
29	10.47	-0.07	2.9201	-3.0243	0.0646	-0.1424	0.0220	0.2501	-1.0357	
30	10.90	-0.08	3.0992	-3.2190	0.1057	-0.0260	0.0240	0.2495	-1.0387	
31	11.31	-0.01	3.2635	-3.3760	0.1842	-0.0449	0.0260	0.2444	-1.0345	
32	11.66	-0.08	3.3394	-3.5303	0.0581	0.0137	0.0270	0.2389	-1.0572	
33	12.05	-0.03	3.5154	-3.7318	0.0787	0.0328	0.0250	0.2382	-1.0615	
34	12.41	-0.07	3.6300	-3.9182	0.1178	0.0121	0.0300	0.2381	-1.0794	
35	12.79	-0.07	3.7830	-4.1194	-0.0132	-0.0485	0.0280	0.2290	-1.0889	
36	13.13	-0.06	3.9223	-4.3074	0.1060	-0.0464	0.0260	0.2250	-1.0982	
37	13.51	-0.08	4.0753	-4.4445	-0.0130	-0.1258	0.0310	0.2243	-1.0906	
38	13.85	-0.06	4.1968	-4.6306	0.1064	-0.0450	0.0270	0.2262	-1.1034	
39	14.24	-0.06	4.3321	-4.8291	0.0943	0.0200	0.0250	0.2222	-1.1147	
40	14.57	-0.09	4.4632	-4.9897	-0.0315	0.0341	0.0280	0.2177	-1.1180	
41	14.95	-0.04	4.6769	-5.2468	0.1575	-0.0895	0.0260	0.2054	-1.1219	
42	15.30	-0.07	4.6870	-5.3639	0.0108	0.0189	0.0320	0.2050	-1.1444	
43	15.64	-0.07	4.8712	-5.5758	0.0229	0.0789	0.0310	0.2038	-1.1447	
44	15.99	-0.08	5.0220	-5.8210	0.0961	0.0255	0.0260	0.1947	-1.1591	
45	16.30	-0.06	5.1604	-6.0128	0.0578	-0.0499	0.0200	0.1886	-1.1652	
46	16.66	-0.07	5.3243	-6.2052	0.0419	-0.0217	0.0220	0.1790	-1.1654	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	R X 10 ⁻⁶	PH1	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION
6	51	0.97	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP		
47	17.00	-0.11	5.4178	-6.3711	-0.1196	0.0024	0.0200	0.1763	-1.1760		
48	17.34	-0.13	5.6008	-6.6272	-0.0005	0.0667	0.0150	0.1759	-1.1833		
49	17.64	-0.07	5.7592	-6.8041	0.0575	-0.0035	0.0180	0.1732	-1.1814		
50	17.96	-0.08	5.8892	-7.0311	0.0354	0.1714	0.0070	0.1637	-1.1939		
51	18.32	-0.08	5.9902	-7.1825	0.0167	0.1516	0.0110	0.1560	-1.1990		
52	18.66	-0.10	6.0876	-7.3018	-0.1340	0.1616	-0.0130	0.1518	-1.1995		
53	18.95	-0.05	6.1901	-7.5353	0.0646	0.1995	-0.0140	0.1401	-1.2173		
54	19.30	-0.09	6.2985	-7.6270	-0.0423	0.1552	-0.0170	0.1376	-1.2109		
55	19.62	-0.08	6.3791	-7.7358	0.0156	0.1831	-0.0180	0.1298	-1.2133		
56	19.97	-0.10	6.5281	-7.9526	-0.1357	0.2479	-0.0150	0.1277	-1.2182		
57	20.30	-0.07	6.7049	-8.1471	0.0325	0.0175	0.0100	0.1134	-1.2151		
58	20.61	-0.10	6.7080	-8.1504	0.0019	0.1623	0.0100	0.1067	-1.2150		
59	20.97	-0.10	6.8956	-8.3440	-0.0761	0.1125	0.0010	0.1006	-1.2100		
60	21.30	-0.07	7.0469	-8.4948	0.0231	0.0796	-0.0070	0.0973	-1.2055		
61	21.64	-0.08	7.1870	-8.5799	-0.0190	0.1696	-0.0170	0.0948	-1.1938		
62	21.98	-0.07	7.2955	-8.6990	0.0598	0.2472	-0.0210	0.0914	-1.1924		
63	22.25	-0.09	7.3751	-8.7994	-0.0512	0.1677	-0.0240	0.0845	-1.1931		
64	22.61	-0.07	7.5395	-8.9165	-0.0199	0.3598	-0.0380	0.0758	-1.1826		
65	22.90	-0.09	7.6364	-8.9202	0.0318	0.3564	-0.0410	0.0761	-1.1681		
66	23.23	-0.07	7.7286	-9.0683	-0.0518	0.2225	-0.0440	0.0654	-1.1733		
67	23.52	-0.08	7.9041	-9.1899	-0.0257	0.4039	-0.0540	0.0577	-1.1627		
68	23.89	-0.10	7.9790	-9.1998	-0.0767	0.4323	-0.0480	0.0530	-1.1530		
69	24.14	-0.06	8.1482	-9.3468	-0.0217	0.2973	-0.0500	0.0511	-1.1471		
70	24.54	-0.08	8.3217	-9.3607	-0.0039	0.3554	-0.0480	0.0524	-1.1249		
71	24.81	-0.10	8.3352	-9.3886	-0.0448	0.2817	-0.0630	0.0454	-1.1264		
72	25.13	-0.12	8.5176	-9.3840	-0.2498	0.5816	-0.0580	0.0484	-1.1017		
73	25.45	-0.09	8.5634	-9.5101	-0.0902	0.3932	-0.0820	0.0399	-1.1105		
74	25.71	-0.11	8.6411	-9.5548	-0.0780	0.3812	-0.0880	0.0372	-1.1057		
75	26.08	-0.11	8.8598	-9.5961	-0.1012	0.4416	-0.0960	0.0177	-1.0831		
76	26.30	-0.06	8.9092	-9.6603	0.0797	0.3424	-0.1130	0.0269	-1.0843		
77	26.65	-0.11	9.0511	-9.7229	-0.0439	0.3164	-0.1150	0.0128	-1.0742		
78	26.93	-0.10	9.2201	-9.5756	-0.0235	0.2719	-0.1280	0.0153	-1.0386		
79	27.29	-0.10	9.2933	-9.4341	-0.1363	0.5058	-0.1460	0.0216	-1.0151		
80	27.57	-0.09	9.4388	-9.4948	-0.1033	0.4536	-0.1270	0.0138	-1.0059		
81	27.92	-0.10	9.5332	-9.6379	-0.1257	0.4219	-0.1290	0.0024	-1.0110		
82	28.21	-0.09	9.5850	-9.5176	-0.0455	0.3537	-0.1440	-0.0058	-0.9930		
83	28.53	-0.09	9.9505	-9.5123	0.0153	0.1746	-0.1610	-0.0108	-0.9560		
84	28.81	-0.12	9.9178	-9.6035	0.0199	0.1361	-0.1600	-0.0162	-0.9683		
85	29.14	-0.08	10.0651	-9.5207	0.2549	-0.0499	-0.1650	-0.0237	-0.9459		
86	29.46	-0.10	10.1376	-9.4142	-0.0905	0.3227	-0.1680	-0.0303	-0.9286		
87	29.78	-0.09	10.2546	-9.4000	0.0136	0.2175	-0.1660	-0.0394	-0.9167		
88	30.06	-0.12	10.3183	-9.3092	0.0264	-0.1279	-0.1470	-0.0493	-0.9022		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNFI	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	51	0.97	1.7	0.0	0.22	0.12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNFI	CHI	CB1	XCPI1	YCPI1	CNFI2	CHI2	CB2	XCPI2	YCPI2
1	-2.30	-0.05	-0.2906	0.0017	0.0526	-0.0060	-0.1811	-0.0453	0.0059	-0.0416	-0.1313	0.9182
2	-2.44	-0.05	-0.2910	0.0017	0.0527	-0.0060	-0.1810	-0.0299	0.0047	-0.0352	-0.1572	1.1760
3	-1.92	-0.04	-0.2775	0.0016	0.0511	-0.0058	-0.1841	-0.0158	0.0030	-0.0287	-0.1898	1.8142
4	-1.28	-0.06	-0.2701	0.0015	0.0503	-0.0056	-0.1862	-0.0035	0.0017	-0.0213	-0.4856	6.0761
5	-0.73	-0.06	-0.2850	0.0017	0.0520	-0.0060	-0.1824	0.0090	0.0007	-0.0146	0.0778	-1.6223
6	-0.18	-0.06	-0.2672	0.0015	0.0500	-0.0056	-0.1870	0.0139	0.0001	-0.0113	0.0108	-0.8107
7	0.36	-0.07	-0.2732	0.0016	0.0507	-0.0059	-0.1855	0.0270	-0.0000	-0.0076	-0.0019	-0.2816
8	0.91	-0.06	-0.2702	0.0015	0.0504	-0.0056	-0.1864	0.0329	-0.0007	-0.0024	-0.0213	-0.0741
9	1.40	-0.07	-0.2687	0.0015	0.0502	-0.0056	-0.1867	0.0472	-0.0014	0.0028	-0.0297	0.0599
10	1.95	-0.07	-0.2732	0.0016	0.0507	-0.0059	-0.1855	0.0588	-0.0023	0.0081	-0.0400	0.1376
11	2.42	-0.04	-0.2732	0.0016	0.0507	-0.0059	-0.1855	0.0713	-0.0034	0.0155	-0.0484	0.2168
12	2.89	-0.03	-0.2687	0.0015	0.0502	-0.0056	-0.1867	0.0802	-0.0044	0.0203	-0.0555	0.2534
13	3.38	-0.05	-0.2732	0.0016	0.0507	-0.0059	-0.1855	0.1023	-0.0057	0.0290	-0.0562	0.2834
14	3.84	-0.06	-0.2702	0.0016	0.0503	-0.0059	-0.1860	0.1181	-0.0067	0.0340	-0.0571	0.2883
15	4.32	-0.06	-0.2760	0.0016	0.0510	-0.0058	-0.1847	0.1425	-0.0081	0.0450	-0.0572	0.3157
16	4.76	-0.05	-0.2911	0.0018	0.0527	-0.0064	-0.1809	0.1617	-0.0089	0.0537	-0.0550	0.3320
17	5.25	-0.05	-0.2760	0.0016	0.0510	-0.0058	-0.1847	0.1802	-0.0096	0.0594	-0.0535	0.3299
18	5.71	-0.07	-0.2776	0.0017	0.0512	-0.0061	-0.1843	0.2030	-0.0108	0.0715	-0.0534	0.3524
19	6.18	-0.08	-0.2760	0.0016	0.0510	-0.0058	-0.1847	0.2159	-0.0116	0.0797	-0.0542	0.3725
20	6.62	-0.04	-0.2911	0.0019	0.0527	-0.0065	-0.1809	0.2398	-0.0117	0.0896	-0.0488	0.3737
21	7.09	-0.08	-0.2970	0.0019	0.0533	-0.0064	-0.1794	0.2621	-0.0119	0.0970	-0.0456	0.3702
22	7.52	-0.07	-0.2850	0.0017	0.0520	-0.0060	-0.1824	0.2827	-0.0126	0.1055	-0.0447	0.3732
23	7.96	-0.02	-0.2650	0.0017	0.0520	-0.0060	-0.1824	0.2991	-0.0128	0.1143	-0.0429	0.3820
24	8.41	0.01	-0.2851	0.0017	0.0520	-0.0061	-0.1822	0.3172	-0.0127	0.1214	-0.0402	0.3827
25	8.81	-0.07	-0.2821	0.0017	0.0517	-0.0060	-0.1831	0.3473	-0.0132	0.1318	-0.0380	0.3796
26	9.25	-0.10	-0.2651	0.0018	0.0520	-0.0063	-0.1822	0.3653	-0.0134	0.1397	-0.0368	0.3825
27	9.65	-0.10	-0.2851	0.0018	0.0520	-0.0063	-0.1822	0.3821	-0.0137	0.1469	-0.0360	0.3845
28	10.09	-0.08	-0.2850	0.0017	0.0520	-0.0060	-0.1824	0.3991	-0.0141	0.1532	-0.0353	0.3838
29	10.47	-0.07	-0.2672	0.0015	0.0500	-0.0056	-0.1870	0.4241	-0.0147	0.1618	-0.0348	0.3815
30	10.90	-0.08	-0.2702	0.0015	0.0504	-0.0056	-0.1864	0.4384	-0.0147	0.1670	-0.0336	0.3809
31	11.31	-0.01	-0.2612	0.0014	0.0493	-0.0054	-0.1886	0.4556	-0.0152	0.1724	-0.0333	0.3784
32	11.66	-0.08	-0.2522	0.0012	0.0483	-0.0050	-0.1914	0.4780	-0.0152	0.1798	-0.0318	0.3761
33	12.05	-0.03	-0.2612	0.0014	0.0494	-0.0054	-0.1890	0.4932	-0.0153	0.1877	-0.0310	0.3807
34	12.41	-0.07	-0.2523	0.0013	0.0483	-0.0052	-0.1916	0.5092	-0.0156	0.1934	-0.0306	0.3797
35	12.79	-0.07	-0.2523	0.0013	0.0483	-0.0052	-0.1916	0.5278	-0.0155	0.1987	-0.0294	0.3764
36	13.13	-0.06	-0.2465	0.0012	0.0477	-0.0049	-0.1934	0.5465	-0.0156	0.2044	-0.0285	0.3740
37	13.51	-0.08	-0.2480	0.0012	0.0475	-0.0048	-0.1930	0.5616	-0.0156	0.2077	-0.0278	0.3699
38	13.85	-0.06	-0.2406	0.0011	0.0470	-0.0046	-0.1955	0.5843	-0.0156	0.2152	-0.0271	0.3683
39	14.24	-0.06	-0.2267	0.0009	0.0455	-0.0040	-0.2005	0.6046	-0.0156	0.2199	-0.0258	0.3636
40	14.57	-0.09	-0.2461	0.0011	0.0476	-0.0047	-0.1934	0.6149	-0.0159	0.2250	-0.0258	0.3659
41	14.95	-0.04	-0.2371	0.0010	0.0466	-0.0044	-0.1965	0.6410	-0.0163	0.2343	-0.0254	0.3655
42	15.30	-0.07	-0.2226	0.0009	0.0450	-0.0040	-0.2023	0.6462	-0.0162	0.2360	-0.0251	0.3652
43	15.64	-0.07	-0.2180	0.0008	0.0445	-0.0037	-0.2039	0.6764	-0.0159	0.2442	-0.0236	0.3610
44	15.99	-0.08	-0.2224	0.0008	0.0450	-0.0038	-0.2023	0.6979	-0.0156	0.2491	-0.0224	0.3570
45	16.30	-0.06	-0.2070	0.0006	0.0432	-0.0031	-0.2088	0.7145	-0.0150	0.2566	-0.0211	0.3591
46	16.66	-0.07	-0.2072	0.0006	0.0433	-0.0031	-0.2088	0.7369	-0.0150	0.2602	-0.0203	0.3532

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 51 0.97 1.7 0.0 82M2F12 16.750 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
47	17.00	-0.11	-0.1922	0.0004	0.0415	-0.0021	-0.2162	0.7557	-0.0148	0.2663	-0.0196	0.3524
48	17.34	-0.13	-0.2011	0.0005	0.0426	-0.0027	-0.2118	0.7814	-0.0139	0.2741	-0.0178	0.3507
49	17.64	-0.07	-0.1953	0.0004	0.0419	-0.0020	-0.2147	0.8064	-0.0129	0.2816	-0.0160	0.3492
50	17.96	-0.08	-0.1816	0.0002	0.0404	-0.0014	-0.2224	0.8263	-0.0124	0.2871	-0.0150	0.3475
51	18.32	-0.08	-0.1711	0.0	0.0392	0.0	-0.2290	0.8431	-0.0109	0.2883	-0.0130	0.3420
52	18.66	-0.10	-0.1534	-0.0001	0.0372	0.0010	-0.2424	0.8578	-0.0106	0.2957	-0.0124	0.3448
53	18.95	-0.05	-0.1431	-0.0003	0.0361	0.0021	-0.2524	0.8716	-0.0095	0.2997	-0.0110	0.3439
54	19.30	-0.09	-0.1175	-0.0007	0.0331	0.0064	-0.2821	0.8943	-0.0087	0.3044	-0.0098	0.3404
55	19.62	-0.08	-0.1220	-0.0005	0.0336	0.0045	-0.2758	0.9046	-0.0079	0.3059	-0.0088	0.3382
56	19.97	-0.10	-0.1027	-0.0009	0.0316	0.0088	-0.3075	0.9285	-0.0072	0.3120	-0.0078	0.3360
57	20.30	-0.07	-0.1267	-0.0005	0.0343	0.0043	-0.2706	0.9513	-0.0056	0.3173	-0.0059	0.3314
58	20.61	-0.10	-0.1209	-0.0006	0.0336	0.0050	-0.2780	0.9677	-0.0043	0.3204	-0.0044	0.3310
59	20.97	-0.10	-0.1119	-0.0008	0.0326	0.0071	-0.2914	0.9862	-0.0037	0.3236	-0.0038	0.3281
60	21.30	-0.07	-0.1059	-0.0009	0.0320	0.0045	-0.3023	1.0011	-0.0033	0.3270	-0.0033	0.3266
61	21.64	-0.08	-0.1091	-0.0008	0.0323	0.0078	-0.2965	1.0109	-0.0021	0.3283	-0.0021	0.3247
62	21.98	-0.07	-0.0910	-0.0012	0.0304	0.0137	-0.3338	1.0271	-0.0025	0.3331	-0.0024	0.3243
63	22.25	-0.09	-0.0500	-0.0017	0.0266	0.0293	-0.4582	1.0379	-0.0003	0.3363	-0.0003	0.3241
64	22.61	-0.07	-0.0369	-0.0021	0.0242	0.0569	-0.6559	1.0541	0.0011	0.3395	0.0010	0.3221
65	22.90	-0.09	-0.0368	-0.0022	0.0242	0.0598	-0.6586	1.0677	0.0004	0.3416	0.0004	0.3199
66	23.23	-0.07	-0.0519	-0.0019	0.0259	0.0366	-0.4492	1.0875	0.0028	0.3451	0.0026	0.3173
67	23.52	-0.08	-0.0427	-0.0022	0.0250	0.0527	-0.5848	1.1028	0.0033	0.3492	0.0030	0.3166
68	23.89	-0.10	-0.0368	-0.0022	0.0243	0.0611	-0.6614	1.1066	0.0037	0.3513	0.0033	0.3175
69	24.14	-0.06	-0.0367	-0.0023	0.0243	0.0640	-0.6613	1.1204	0.0058	0.3535	0.0052	0.3155
70	24.54	-0.08	-0.0382	-0.0023	0.0245	0.0602	-0.6406	1.1358	0.0054	0.3581	0.0048	0.3153
71	24.81	-0.10	-0.0367	-0.0023	0.0243	0.0640	-0.6613	1.1427	0.0073	0.3575	0.0064	0.3128
72	25.13	-0.12	-0.0081	-0.0028	0.0211	0.0518	-2.6051	1.1547	0.0090	0.3591	0.0078	0.3110
73	25.45	-0.09	0.0025	-0.0030	0.0199	-1.2198	7.9732	1.1631	0.0101	0.3593	0.0087	0.3089
74	25.71	-0.11	0.0235	-0.0032	0.0175	-0.1383	0.7460	1.1781	0.0117	0.3644	0.0100	0.3093
75	26.08	-0.11	0.0132	-0.0033	0.0188	-0.2537	1.4241	1.1798	0.0112	0.3639	0.0095	0.3085
76	26.30	-0.06	0.0236	-0.0033	0.0177	-0.1419	0.7485	1.1934	0.0136	0.3670	0.0114	0.3075
77	26.65	-0.11	0.0615	-0.0039	0.0134	-0.0634	0.2178	1.2142	0.0163	0.3697	0.0134	0.3045
78	26.93	-0.10	0.0828	-0.0043	0.0110	-0.0519	0.1327	1.2245	0.0184	0.3700	0.0151	0.3022
79	27.29	-0.10	0.0392	-0.0039	0.0160	-0.1007	0.4072	1.2206	0.0155	0.3707	0.0127	0.3037
80	27.57	-0.09	0.0483	-0.0040	0.0145	-0.0838	0.3084	1.2358	0.0179	0.3735	0.0145	0.3022
81	27.92	-0.10	0.0738	-0.0042	0.0121	-0.0569	0.1638	1.2479	0.0204	0.3741	0.0164	0.2998
82	28.21	-0.09	0.0149	-0.0034	0.0187	-0.2315	1.2527	1.2519	0.0198	0.3752	0.0158	0.2998
83	28.53	-0.09	0.1147	-0.0047	0.0074	-0.0410	0.0647	1.2766	0.0253	0.3781	0.0198	0.2946
84	28.81	-0.12	0.0602	-0.0039	0.0136	-0.0648	0.2252	1.2732	0.0228	0.3792	0.0179	0.2979
85	29.14	-0.08	0.1904	-0.0054	-0.0012	-0.0284	-0.0061	1.2559	0.0313	0.3640	0.0250	0.2898
86	29.46	-0.10	0.0906	-0.0043	0.0102	-0.0480	0.1125	1.2835	0.0252	0.3809	0.0196	0.2968
87	29.78	-0.09	0.1055	-0.0041	0.0085	-0.0393	0.0801	1.2706	0.0298	0.3682	0.0235	0.2898
88	30.06	-0.12	0.1908	-0.0052	-0.0011	-0.0272	-0.0059	1.2490	0.0315	0.3562	0.0252	0.2852

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	51	0.97	1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	-2.80	-0.05	0.0712	0.0026	-0.0082	0.0365	-0.1148	-0.0511	0.0060	-0.0313	-0.1174	0.6131
2	-2.44	-0.05	0.0713	0.0026	-0.0081	0.0365	-0.1142	-0.0359	0.0052	-0.0276	-0.1462	0.7678
3	-1.92	-0.04	0.0675	0.0023	-0.0077	0.0341	-0.1142	-0.0114	0.0033	-0.0200	-0.2894	1.7543
4	-1.28	-0.06	0.0675	0.0022	-0.0078	0.0326	-0.1157	0.0056	0.0020	-0.0129	0.3571	-2.3096
5	-0.73	-0.06	0.0547	0.0017	-0.0036	0.0311	-0.0653	0.0172	0.0010	-0.0091	0.0581	-0.5273
6	-0.18	-0.06	0.0619	0.0013	-0.0044	0.0210	-0.0707	0.0302	0.0	-0.0044	0.0	-0.1469
7	0.36	-0.07	0.0619	0.0012	-0.0044	0.0194	-0.0707	0.0461	-0.0009	-0.0019	-0.0195	-0.0421
8	0.91	-0.06	0.0728	0.0007	-0.0056	0.0096	-0.0775	0.0565	-0.0020	0.0036	-0.0354	0.0642
9	1.40	-0.07	0.0687	0.0006	-0.0044	0.0087	-0.0642	0.0751	-0.0032	0.0096	-0.0433	0.1282
10	1.95	-0.07	0.0629	0.0002	-0.0003	0.0032	-0.0054	0.0929	-0.0048	0.0162	-0.0522	0.1739
11	2.42	-0.04	0.0665	-0.0002	-0.0007	-0.0030	-0.0111	0.1102	-0.0061	0.0220	-0.0553	0.1998
12	2.89	-0.03	0.0698	-0.0003	-0.0004	-0.0043	-0.0063	0.1333	-0.0075	0.0263	-0.0563	0.1974
13	3.38	-0.05	0.0574	-0.0006	0.0030	-0.0105	0.0527	0.1546	-0.0092	0.0364	-0.0595	0.2355
14	3.84	-0.06	0.0721	-0.0009	0.0014	-0.0125	0.0198	0.1728	-0.0132	0.0434	-0.0593	0.2510
15	4.32	-0.06	0.0680	-0.0009	0.0026	-0.0132	0.0376	0.2030	-0.0114	0.0515	-0.0564	0.2539
16	4.76	-0.05	0.0679	-0.0012	0.0025	-0.0177	0.0372	0.2197	-0.0123	0.0560	-0.0560	0.2549
17	5.25	-0.05	0.0697	-0.0011	0.0058	-0.0165	0.0836	0.2514	-0.0130	0.0663	-0.0517	0.2636
18	5.71	-0.07	0.0697	-0.0011	0.0058	-0.0165	0.0836	0.2752	-0.0137	0.0754	-0.0498	0.2740
19	6.18	-0.08	0.0699	-0.0008	0.0057	-0.0122	0.0814	0.2961	-0.0142	0.0832	-0.0479	0.2809
20	6.62	-0.04	0.0699	-0.0008	0.0057	-0.0122	0.0814	0.3135	-0.0149	0.0902	-0.0475	0.2876
21	7.09	-0.08	0.0697	-0.0011	0.0058	-0.0165	0.0836	0.3313	-0.0151	0.0989	-0.0457	0.2985
22	7.52	-0.07	0.0684	-0.0008	0.0086	-0.0124	0.1256	0.3631	-0.0152	0.1088	-0.0418	0.2996
23	7.96	-0.02	0.0699	-0.0008	0.0057	-0.0122	0.0814	0.3838	-0.0154	0.1157	-0.0402	0.3014
24	8.41	0.01	0.0742	-0.0011	0.0106	-0.0155	0.1432	0.4058	-0.0153	0.1271	-0.0378	0.3133
25	8.83	-0.07	0.0743	-0.0008	0.0107	-0.0114	0.1434	0.4320	-0.0153	0.1370	-0.0354	0.3170
26	9.25	-0.10	0.0753	-0.0011	0.0085	-0.0153	0.1128	0.4521	-0.0158	0.1418	-0.0350	0.3135
27	9.65	-0.10	0.0771	-0.0012	0.0117	-0.0162	0.1516	0.4745	-0.0158	0.1508	-0.0334	0.3178
28	10.09	-0.08	0.0741	-0.0012	0.0107	-0.0169	0.1443	0.4962	-0.0160	0.1574	-0.0322	0.3173
29	10.47	-0.07	0.0669	-0.0007	0.0115	-0.0112	0.1718	0.5199	-0.0158	0.1656	-0.0305	0.3186
30	10.90	-0.08	0.0669	-0.0008	0.0115	-0.0127	0.1718	0.5363	-0.0160	0.1723	-0.0299	0.3213
31	11.31	-0.01	0.0771	-0.0012	0.0117	-0.0162	0.1516	0.5592	-0.0163	0.1806	-0.0292	0.3230
32	11.66	-0.08	0.0741	-0.0012	0.0107	-0.0169	0.1443	0.5799	-0.0168	0.1882	-0.0290	0.3246
33	12.05	-0.03	0.0700	-0.0012	0.0119	-0.0179	0.1704	0.6029	-0.0170	0.1940	-0.0282	0.3218
34	12.41	-0.07	0.0727	-0.0012	0.0136	-0.0165	0.1874	0.6259	-0.0172	0.2019	-0.0275	0.3225
35	12.79	-0.07	0.0768	-0.0011	0.0124	-0.0143	0.1613	0.6416	-0.0168	0.2072	-0.0262	0.3229
36	13.13	-0.06	0.0793	-0.0012	0.0142	-0.0151	0.1794	0.6659	-0.0169	0.2143	-0.0254	0.3218
37	13.51	-0.08	0.0815	-0.0015	0.0168	-0.0184	0.2056	0.6833	-0.0174	0.2193	-0.0255	0.3209
38	13.85	-0.06	0.0915	-0.0014	0.0177	-0.0158	0.1933	0.7108	-0.0173	0.2289	-0.0244	0.3221
39	14.24	-0.06	0.0909	-0.0015	0.0184	-0.0170	0.2023	0.7323	-0.0174	0.2342	-0.0238	0.3198
40	14.57	-0.09	0.0933	-0.0021	0.0201	-0.0230	0.2153	0.7468	-0.0174	0.2414	-0.0234	0.3233
41	14.95	-0.04	0.0995	-0.0021	0.0215	-0.0216	0.2156	0.7760	-0.0171	0.2503	-0.0220	0.3225
42	15.30	-0.07	0.0960	-0.0021	0.0220	-0.0224	0.2290	0.7856	-0.0176	0.2539	-0.0225	0.3232
43	15.64	-0.07	0.0934	-0.0021	0.0201	-0.0230	0.2154	0.8074	-0.0167	0.2608	-0.0207	0.3231
44	15.99	-0.08	0.0958	-0.0024	0.0219	-0.0256	0.2288	0.8246	-0.0166	0.2657	-0.0202	0.3222
45	16.30	-0.06	0.0991	-0.0021	0.0221	-0.0217	0.2232	0.8470	-0.0160	0.2718	-0.0189	0.3209
46	16.66	-0.07	0.1058	-0.0021	0.0228	-0.0203	0.2160	0.8621	-0.0159	0.2786	-0.0185	0.3231

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 51 0.97 1.7 0.0 82W2F12 16.750 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	17.00	-0.11	0.0936	-0.0021	0.0263	-0.0230	0.2809	0.8827	-0.0155	0.2857	-0.0176	0.3237
48	17.34	-0.13	0.0953	-0.0015	0.0233	-0.0163	0.2440	0.9012	-0.0144	0.2921	-0.0160	0.3241
49	17.64	-0.07	0.1036	-0.0014	0.0210	-0.0140	0.2029	0.9292	-0.0139	0.2996	-0.0150	0.3225
50	17.96	-0.08	0.1013	-0.0010	0.0254	-0.0099	0.2503	0.9453	-0.0127	0.3069	-0.0134	0.3246
51	18.32	-0.08	0.1061	-0.0014	0.0227	-0.0132	0.2145	0.9616	-0.0123	0.3099	-0.0128	0.3223
52	18.66	-0.10	0.1161	-0.0015	0.0237	-0.0129	0.2040	0.9856	-0.0107	0.3186	-0.0109	0.3233
53	18.95	-0.05	0.1104	-0.0011	0.0216	-0.0100	0.1955	1.0014	-0.0096	0.3206	-0.0096	0.3201
54	19.30	-0.09	0.1164	-0.0007	0.0237	-0.0060	0.2035	1.0195	-0.0089	0.3278	-0.0088	0.3215
55	19.62	-0.08	0.1235	-0.0004	0.0234	-0.0036	0.1899	1.0237	-0.0088	0.3285	-0.0086	0.3209
56	19.97	-0.10	0.1216	-0.0009	0.0271	-0.0078	0.2230	1.0496	-0.0077	0.3363	-0.0074	0.3205
57	20.30	-0.07	0.1257	0.0000	0.0267	-0.0004	0.2123	1.0582	-0.0058	0.3398	-0.0055	0.3211
58	20.61	-0.10	0.1058	0.0	0.0249	0.0	0.2359	1.0587	-0.0053	0.3405	-0.0051	0.3216
59	20.97	-0.10	0.1216	0.0004	0.0286	0.0033	0.2354	1.0816	-0.0034	0.3465	-0.0031	0.3204
60	21.30	-0.07	0.1286	0.0010	0.0291	0.0078	0.2267	1.0972	-0.0023	0.3520	-0.0021	0.3208
61	21.64	-0.08	0.1235	0.0009	0.0325	0.0073	0.2636	1.1074	-0.0015	0.3564	-0.0014	0.3218
62	21.98	-0.07	0.1235	0.0009	0.0325	0.0073	0.2636	1.1310	-0.0007	0.3633	-0.0006	0.3212
63	22.25	-0.09	0.1139	0.0009	0.0308	0.0079	0.2709	1.1393	-0.0010	0.3658	-0.0009	0.3211
64	22.61	-0.07	0.1266	0.0016	0.0275	0.0126	0.2171	1.1568	-0.0001	0.3708	-0.0001	0.3205
65	22.90	-0.09	0.1251	0.0015	0.0296	0.0120	0.2365	1.1721	0.0005	0.3762	0.0005	0.3209
66	23.23	-0.07	0.1315	0.0023	0.0315	0.0179	0.2397	1.1842	0.0006	0.3792	0.0005	0.3202
67	23.52	-0.08	0.1316	0.0020	0.0316	0.0156	0.2405	1.2065	0.0027	0.3865	0.0022	0.3204
68	23.89	-0.10	0.1128	0.0017	0.0270	0.0151	0.2392	1.2068	0.0025	0.3865	0.0021	0.3203
69	24.14	-0.06	0.1273	0.0023	0.0335	0.0185	0.2633	1.2270	0.0026	0.3914	0.0021	0.3190
70	24.54	-0.08	0.1384	0.0030	0.0329	0.0217	0.2378	1.2435	0.0034	0.3969	0.0027	0.3192
71	24.81	-0.10	0.1318	0.0023	0.0316	0.0178	0.2399	1.2389	0.0039	0.3961	0.0032	0.3197
72	25.13	-0.12	0.1433	0.0035	0.0311	0.0244	0.2174	1.2563	0.0049	0.4006	0.0039	0.3189
73	25.45	-0.09	0.1428	0.0031	0.0319	0.0217	0.2233	1.2570	0.0050	0.4022	0.0040	0.3200
74	25.71	-0.11	0.1326	0.0036	0.0316	0.0271	0.2382	1.2625	0.0052	0.4026	0.0042	0.3189
75	26.08	-0.11	0.1288	0.0031	0.0321	0.0241	0.2494	1.2701	0.0106	0.4041	0.0084	0.3182
76	26.30	-0.06	0.1476	0.0037	0.0307	0.0254	0.2079	1.2813	0.0081	0.4088	0.0063	0.3191
77	26.65	-0.11	0.1481	0.0047	0.0307	0.0317	0.2076	1.2892	0.0074	0.4098	0.0057	0.3179
78	26.93	-0.10	0.1397	0.0041	0.0330	0.0297	0.2366	1.2877	0.0083	0.4129	0.0064	0.3206
79	27.29	-0.10	0.1484	0.0036	0.0300	0.0246	0.2025	1.2649	0.0163	0.4031	0.0129	0.3187
80	27.57	-0.09	0.1324	0.0030	0.0264	0.0227	0.1995	1.2760	0.0158	0.4052	0.0124	0.3175
81	27.92	-0.10	0.1425	0.0041	0.0349	0.0288	0.2448	1.2957	0.0136	0.4133	0.0105	0.3190
82	28.21	-0.09	0.1425	0.0040	0.0280	0.0284	0.1964	1.2609	0.0193	0.3990	0.0153	0.3165
83	28.53	-0.09	0.1490	0.0051	0.0369	0.0346	0.2480	1.2978	0.0163	0.4139	0.0126	0.3190
84	28.81	-0.12	0.1598	0.0056	0.0371	0.0350	0.2325	1.2860	0.0188	0.4078	0.0146	0.3171
85	29.14	-0.08	0.1687	0.0066	0.0416	0.0394	0.2467	1.3271	0.0134	0.4198	0.0101	0.3163
86	29.46	-0.10	0.1509	0.0051	0.0341	0.0341	0.2259	1.2922	0.0207	0.4023	0.0160	0.3113
87	29.78	-0.09	0.1710	0.0052	0.0367	0.0304	0.2145	1.3035	0.0197	0.4109	0.0151	0.3153
88	30.06	-0.12	0.1806	0.0067	0.0405	0.0371	0.2241	1.3317	0.0159	0.4225	0.0120	0.3173

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	52	1.01	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-1.92	-0.05	-0.3424	0.1113	0.1578	-0.0509	0.0180	0.3383	-0.3252		
2	-1.30	0.01	-0.2414	0.0710	0.1581	-0.0363	0.0170	0.3455	-0.2940		
3	-0.73	-0.05	-0.1367	0.0224	0.0835	-0.0569	0.0230	0.3421	-0.1637		
4	-0.17	-0.03	-0.0227	0.0258	0.0025	-0.0165	0.0230	0.3490	-1.1357		
5	0.37	0.02	0.1201	0.0129	0.0841	0.0253	0.0200	0.3510	0.1071		
6	0.91	-0.04	0.1810	0.0206	0.0476	-0.0946	0.0280	0.3529	0.1138		
7	1.40	0.02	0.3138	-0.0113	0.1309	-0.0193	0.0230	0.3508	-0.0361		
8	1.95	0.0	0.4396	-0.0706	0.2141	-0.1597	0.0330	0.3543	-0.1605		
9	2.43	0.03	0.5592	-0.1650	0.1777	-0.0448	0.0260	0.3514	-0.2950		
10	2.93	-0.03	0.6500	-0.2185	0.0618	0.0545	0.0250	0.3480	-0.3331		
11	3.39	-0.01	0.7684	-0.2959	0.1614	-0.1369	0.0260	0.3442	-0.3850		
12	3.88	-0.04	0.9418	-0.4406	0.0922	-0.0751	0.0220	0.3419	-0.4678		
13	4.33	-0.03	1.0273	-0.5483	0.1551	-0.1461	0.0260	0.3491	-0.5337		
14	4.77	0.01	1.1958	-0.6713	0.0827	-0.0688	0.0210	0.3459	-0.5614		
15	5.27	-0.02	1.3394	-0.8403	0.0497	-0.0466	0.0330	0.3434	-0.6274		
16	5.74	-0.05	1.4365	-0.9503	0.0252	-0.0963	0.0240	0.3457	-0.6615		
17	6.20	0.0	1.5827	-1.1479	0.1743	-0.1210	0.0200	0.3408	-0.7253		
18	6.64	0.01	1.7196	-1.2906	0.1993	-0.0780	0.0240	0.3448	-0.7505		
19	7.11	-0.07	1.8376	-1.4517	0.0112	-0.0527	0.0190	0.3501	-0.7900		
20	7.56	0.05	1.9583	-1.5748	0.2176	-0.1256	0.0250	0.3421	-0.8042		
21	8.02	-0.05	2.1118	-1.8017	0.0908	-0.1481	0.0260	0.3419	-0.8532		
22	8.43	-0.15	2.2232	-1.8847	-0.0112	-0.0623	0.0250	0.3460	-0.8477		
23	8.85	0.03	2.4037	-2.1813	0.1177	-0.0958	0.0260	0.3455	-0.9075		
24	9.28	-0.06	2.5707	-2.3591	0.0389	-0.0385	0.0240	0.3409	-0.9177		
25	9.68	-0.05	2.6400	-2.4341	0.1428	-0.2129	0.0280	0.3402	-0.9220		
26	10.11	-0.09	2.8108	-2.6563	0.0653	-0.1144	0.0260	0.3357	-0.9450		
27	10.51	-0.01	2.9374	-2.8315	0.1113	-0.1478	0.0250	0.3266	-0.9640		
28	10.93	-0.04	3.0623	-2.9774	0.1873	-0.1522	0.0270	0.3311	-0.9723		
29	11.32	-0.02	3.1581	-3.1545	0.0866	-0.0992	0.0270	0.3292	-0.9989		
30	11.71	-0.08	3.3484	-3.3409	0.0391	-0.1627	0.0290	0.3252	-0.9978		
31	12.07	-0.07	3.4290	-3.4447	0.0585	-0.1099	0.0310	0.3205	-1.0046		
32	12.46	-0.05	3.6056	-3.6261	0.1744	-0.0851	0.0270	0.3144	-1.0057		
33	12.81	-0.03	3.7391	-3.8329	0.0442	-0.0269	0.0340	0.3173	-1.0251		
34	13.17	-0.07	3.8465	-3.9333	-0.0263	-0.0652	0.0290	0.3093	-1.0226		
35	13.55	-0.05	3.9909	-4.1164	0.0592	-0.0539	0.0360	0.3173	-1.0315		
36	13.90	-0.05	4.1595	-4.3104	0.1204	-0.0576	0.0320	0.3153	-1.0363		
37	14.27	-0.07	4.2522	-4.4683	0.0215	0.0009	0.0310	0.3152	-1.0508		
38	14.65	-0.06	4.4131	-4.6236	0.0743	-0.0220	0.0330	0.3094	-1.0477		
39	14.99	-0.06	4.5468	-4.7917	0.1481	-0.0873	0.0260	0.3050	-1.0539		
40	15.32	-0.08	4.6319	-4.9139	-0.0223	0.0102	0.0280	0.2962	-1.0609		
41	15.71	-0.07	4.7783	-5.0768	0.0548	0.0083	0.0300	0.2894	-1.0625		
42	16.04	-0.09	4.8968	-5.2887	0.0891	-0.0047	0.0290	0.2738	-1.0800		
43	16.37	-0.05	5.0755	-5.5310	0.1171	0.0271	0.0230	0.2673	-1.0897		
44	16.67	-0.06	5.1516	-5.6365	0.0875	0.0735	0.0330	0.2636	-1.0941		
45	17.03	-0.06	5.3060	-5.8506	0.0844	-0.0332	0.0260	0.2499	-1.1026		
46	17.36	-0.09	5.4414	-6.0142	-0.0499	0.0729	0.0240	0.2511	-1.1053		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			52	1.01	1.7	0.0	82W2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	17.70	-0.07	5.5162	-6.1339	0.0732	0.0985	0.0210	0.2459	-1.1120				
48	18.02	-0.05	5.6508	-6.3133	0.0520	0.1272	0.0170	0.2365	-1.1172				
49	18.36	-0.06	5.8597	-6.5358	0.0078	0.1171	0.0240	0.2409	-1.1154				
50	18.71	-0.10	5.9472	-6.7013	-0.0464	0.0829	0.0150	0.2298	-1.1268				
51	19.03	-0.04	6.0389	-6.8237	0.0639	0.1875	0.0150	0.2248	-1.1300				
52	19.37	-0.09	6.1962	-6.9899	-0.0413	0.1078	0.0140	0.2134	-1.1281				
53	19.69	-0.06	6.3421	-7.1421	-0.0015	0.2781	0.0100	0.2157	-1.1261				
54	20.03	-0.07	6.4856	-7.3100	-0.0145	0.2133	0.0060	0.2072	-1.1271				
55	20.35	-0.07	6.6009	-7.3836	0.0831	0.1996	0.0060	0.2005	-1.1186				
56	20.69	-0.09	6.6847	-7.5129	-0.0620	0.2518	0.0060	0.1988	-1.1239				
57	21.05	-0.09	6.9042	-7.7391	0.0077	0.1072	-0.0060	0.1880	-1.1209				
58	21.37	-0.10	6.9647	-7.7978	-0.0678	0.1499	-0.0100	0.1871	-1.1196				
59	21.70	-0.10	7.0975	-7.8467	-0.1300	0.2370	-0.0110	0.1812	-1.1056				
60	22.04	-0.08	7.2352	-7.9715	0.0515	0.0709	-0.0150	0.1682	-1.1018				
61	22.36	-0.08	7.3473	-8.0716	0.0601	0.0449	-0.0190	0.1627	-1.0986				
62	22.67	-0.09	7.4754	-8.0209	-0.0035	0.1919	-0.0170	0.1596	-1.0730				
63	23.00	-0.10	7.6450	-8.1553	-0.0048	0.1047	-0.0190	0.1532	-1.0668				
64	23.31	-0.10	7.7779	-8.1564	0.0090	0.1604	-0.0110	0.1459	-1.0487				
65	23.65	-0.09	7.8427	-8.2471	0.0934	0.0122	-0.0080	0.1278	-1.0516				
66	23.93	-0.10	8.0073	-8.2325	-0.0249	0.1528	-0.0090	0.1326	-1.0281				
67	24.30	-0.09	8.1620	-8.3782	0.0152	0.1577	-0.0250	0.1297	-1.0265				
68	24.61	-0.10	8.3153	-8.4529	0.0607	0.1870	-0.0320	0.1237	-1.0165				
69	24.95	-0.08	8.5263	-8.4732	0.0436	0.1459	-0.0480	0.1177	-0.9938				
70	25.25	-0.09	8.6020	-8.5872	-0.0394	0.3371	-0.0500	0.1083	-0.9983				
71	25.54	-0.10	8.6862	-8.6791	-0.0228	0.2789	-0.0450	0.1011	-0.9992				
72	25.87	-0.10	8.8929	-8.7496	-0.0400	0.3030	-0.0620	0.1009	-0.9839				
73	26.18	-0.10	9.0418	-8.7641	-0.0111	0.3655	-0.0590	0.0802	-0.9693				
74	26.50	-0.10	9.2129	-8.8256	-0.0819	0.3776	-0.0750	0.0738	-0.9580				
75	26.76	-0.11	9.2923	-8.8967	-0.1270	0.3997	-0.0700	0.0661	-0.9574				
76	27.09	-0.09	9.4435	-8.9134	0.0075	0.2815	-0.0980	0.0585	-0.9439				
77	27.41	-0.09	9.5309	-8.8208	-0.1119	0.5706	-0.1000	0.0486	-0.9255				
78	27.71	-0.09	9.7073	-8.9099	-0.0560	0.3973	-0.1200	0.0407	-0.9178				
79	28.02	-0.09	9.8056	-8.9585	-0.1025	0.4984	-0.1120	0.0464	-0.9136				
80	28.36	-0.09	10.0139	-8.7691	-0.1400	0.5029	-0.1340	0.0503	-0.8757				
81	28.67	-0.10	10.1072	-8.7657	-0.0277	0.1528	-0.1370	0.0318	-0.8673				
82	28.98	-0.10	10.2244	-8.7408	0.0578	-0.0059	-0.1320	0.0216	-0.8549				
83	29.28	-0.09	10.2737	-8.7399	0.1050	-0.0880	-0.1380	0.0172	-0.8507				
84	29.60	-0.10	10.4430	-8.7320	0.1005	-0.1267	-0.1550	0.0062	-0.8362				
85	29.91	-0.08	10.5493	-8.6318	0.1782	-0.1635	-0.1480	0.0014	-0.8182				
86	30.23	-0.11	10.6823	-8.5761	0.0958	-0.3891	-0.1400	-0.0075	-0.8028				

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 52 1.01 1.7 0.0 B2M2F12 16.750 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-1.92	-0.05	-0.2699	0.0014	0.0499	-0.0052	-0.1848	-0.0195	0.0036	-0.0230	-0.1846	1.1794
2	-1.30	0.01	-0.2611	0.0012	0.0489	-0.0048	-0.1873	-0.0099	0.0023	-0.0168	-0.2323	1.6969
3	-0.73	-0.05	-0.2552	0.0011	0.0483	-0.0043	-0.1891	-0.0011	0.0015	-0.0133	-1.4088	12.0605
4	-0.17	-0.03	-0.2605	0.0012	0.0488	-0.0048	-0.1873	0.0117	0.0005	-0.0091	0.0470	-0.7779
5	0.37	0.02	-0.2605	0.0013	0.0488	-0.0050	-0.1873	0.0175	0.0001	-0.0049	0.0086	-0.2782
6	0.91	-0.04	-0.2649	0.0014	0.0492	-0.0053	-0.1858	0.0237	-0.0005	-0.0018	-0.0232	-0.0761
7	1.40	0.02	-0.2604	0.0013	0.0487	-0.0050	-0.1871	0.0390	-0.0017	0.0038	-0.0449	0.0973
8	1.95	0.0	-0.2648	0.0014	0.0493	-0.0053	-0.1860	0.0462	-0.0026	0.0089	-0.0563	0.1925
9	2.43	0.03	-0.2602	0.0013	0.0487	-0.0050	-0.1872	0.0627	-0.0044	0.0157	-0.0710	0.2503
10	2.93	-0.03	-0.2542	0.0012	0.0480	-0.0047	-0.1888	0.0711	-0.0055	0.0214	-0.0773	0.3009
11	3.39	-0.01	-0.2541	0.0012	0.0480	-0.0049	-0.1890	0.0914	-0.0069	0.0290	-0.0760	0.3168
12	3.88	-0.04	-0.2614	0.0013	0.0488	-0.0052	-0.1867	0.1101	-0.0085	0.0380	-0.0776	0.3450
13	4.33	-0.03	-0.2538	0.0012	0.0479	-0.0049	-0.1888	0.1276	-0.0097	0.0454	-0.0764	0.3559
14	4.77	0.01	-0.2611	0.0013	0.0488	-0.0052	-0.1869	0.1448	-0.0108	0.0546	-0.0749	0.3774
15	5.27	-0.02	-0.2551	0.0012	0.0481	-0.0049	-0.1885	0.1691	-0.0119	0.0623	-0.0704	0.3687
16	5.74	-0.05	-0.2681	0.0014	0.0496	-0.0054	-0.1849	0.1814	-0.0125	0.0685	-0.0689	0.3779
17	6.20	0.0	-0.2737	0.0013	0.0502	-0.0049	-0.1834	0.2065	-0.0133	0.0785	-0.0646	0.3802
18	6.64	0.01	-0.2766	0.0015	0.0505	-0.0056	-0.1825	0.2274	-0.0140	0.0892	-0.0618	0.3921
19	7.11	-0.07	-0.2636	0.0013	0.0490	-0.0051	-0.1858	0.2465	-0.0147	0.0980	-0.0596	0.3896
20	7.56	0.05	-0.2602	0.0013	0.0486	-0.0050	-0.1868	0.2655	-0.0149	0.1004	-0.0561	0.3780
21	8.02	-0.05	-0.2761	0.0015	0.0504	-0.0056	-0.1824	0.2893	-0.0153	0.1096	-0.0529	0.3788
22	8.43	-0.15	-0.2673	0.0014	0.0493	-0.0052	-0.1846	0.3079	-0.0159	0.1169	-0.0516	0.3796
23	8.85	0.03	-0.2630	0.0013	0.0490	-0.0051	-0.1862	0.3371	-0.0163	0.1270	-0.0483	0.3768
24	9.28	-0.06	-0.2631	0.0013	0.0485	-0.0051	-0.1860	0.3505	-0.0168	0.1359	-0.0479	0.3877
25	9.68	-0.05	-0.2877	0.0017	0.0517	-0.0059	-0.1796	0.3749	-0.0173	0.1434	-0.0463	0.3825
26	10.11	-0.09	-0.2815	0.0016	0.0510	-0.0057	-0.1810	0.3959	-0.0178	0.1510	-0.0449	0.3814
27	10.51	-0.01	-0.2756	0.0015	0.0503	-0.0056	-0.1826	0.4122	-0.0182	0.1565	-0.0441	0.3795
28	10.93	-0.04	-0.2687	0.0015	0.0496	-0.0056	-0.1845	0.4300	-0.0182	0.1642	-0.0424	0.3818
29	11.32	-0.02	-0.2686	0.0014	0.0495	-0.0054	-0.1843	0.4464	-0.0186	0.1704	-0.0418	0.3818
30	11.71	-0.08	-0.2672	0.0014	0.0494	-0.0052	-0.1847	0.4667	-0.0188	0.1774	-0.0404	0.3801
31	12.07	-0.07	-0.2585	0.0013	0.0484	-0.0050	-0.1871	0.4794	-0.0186	0.1820	-0.0393	0.3797
32	12.46	-0.05	-0.2756	0.0015	0.0503	-0.0056	-0.1826	0.5007	-0.0191	0.1894	-0.0381	0.3783
33	12.81	-0.03	-0.2600	0.0013	0.0486	-0.0052	-0.1868	0.5216	-0.0189	0.1954	-0.0363	0.3746
34	13.17	-0.07	-0.2527	0.0012	0.0477	-0.0049	-0.1887	0.5357	-0.0186	0.1994	-0.0348	0.3722
35	13.55	-0.05	-0.2668	0.0014	0.0493	-0.0054	-0.1848	0.5517	-0.0188	0.2037	-0.0341	0.3693
36	13.90	-0.05	-0.2524	0.0012	0.0477	-0.0048	-0.1890	0.5682	-0.0184	0.2098	-0.0325	0.3693
37	14.27	-0.07	-0.2448	0.0011	0.0468	-0.0045	-0.1913	0.5867	-0.0183	0.2150	-0.0312	0.3664
38	14.65	-0.06	-0.2519	0.0012	0.0476	-0.0048	-0.1888	0.6045	-0.0183	0.2188	-0.0303	0.3620
39	14.99	-0.06	-0.2327	0.0009	0.0454	-0.0041	-0.1949	0.6213	-0.0180	0.2236	-0.0290	0.3599
40	15.32	-0.08	-0.2154	0.0007	0.0434	-0.0032	-0.2016	0.6417	-0.0172	0.2295	-0.0268	0.3577
41	15.71	-0.07	-0.2226	0.0008	0.0443	-0.0036	-0.1991	0.6595	-0.0169	0.2351	-0.0257	0.3566
42	16.04	-0.09	-0.2081	0.0005	0.0427	-0.0026	-0.2050	0.6811	-0.0161	0.2416	-0.0237	0.3548
43	16.37	-0.05	-0.2081	0.0005	0.0427	-0.0026	-0.2050	0.7043	-0.0157	0.2477	-0.0223	0.3517
44	16.67	-0.06	-0.1995	0.0004	0.0416	-0.0023	-0.2086	0.7190	-0.0152	0.2498	-0.0212	0.3474
45	17.03	-0.06	-0.1766	0.0001	0.0391	-0.0006	-0.2217	0.7384	-0.0151	0.2571	-0.0205	0.3482
46	17.36	-0.09	-0.1884	0.0003	0.0404	-0.0016	-0.2146	0.7627	-0.0150	0.2624	-0.0197	0.3441

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 52 1.01 1.7 0.0 82W2F12 16.750 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	17.70	-0.07	-0.1854	0.0002	0.0401	-0.0011	-0.2164	0.7718	-0.0152	0.2661	-0.0198	0.3447
48	18.02	-0.05	-0.1509	-0.0002	0.0363	0.0017	-0.2407	0.7890	-0.0151	0.2702	-0.0191	0.3425
49	18.36	-0.06	-0.1568	-0.0002	0.0365	0.0013	-0.2357	0.8170	-0.0143	0.2758	-0.0175	0.3376
50	18.71	-0.10	-0.1598	-0.0001	0.0372	0.0006	-0.2331	0.8342	-0.0142	0.2811	-0.0170	0.3369
51	19.03	-0.04	-0.1581	-0.0004	0.0345	0.0033	-0.2526	0.8517	-0.0145	0.2841	-0.0171	0.3336
52	19.37	-0.09	-0.1137	-0.0008	0.0322	0.0075	-0.2833	0.8712	-0.0146	0.2876	-0.0168	0.3301
53	19.69	-0.06	-0.1223	-0.0007	0.0331	0.0061	-0.2710	0.8891	-0.0146	0.2937	-0.0165	0.3303
54	20.03	-0.07	-0.1426	-0.0004	0.0334	0.0028	-0.2481	0.9049	-0.0144	0.2967	-0.0160	0.3279
55	20.35	-0.07	-0.1312	-0.0005	0.0342	0.0042	-0.2605	0.9185	-0.0147	0.3013	-0.0161	0.3280
56	20.69	-0.09	-0.1080	-0.0009	0.0315	0.0068	-0.2918	0.9346	-0.0148	0.3065	-0.0158	0.3280
57	21.05	-0.09	-0.1312	-0.0006	0.0342	0.0046	-0.2605	0.9552	-0.0152	0.3120	-0.0160	0.3266
58	21.37	-0.10	-0.0847	-0.0013	0.0289	0.0159	-0.3409	0.9680	-0.0148	0.3137	-0.0153	0.3240
59	21.70	-0.10	-0.0732	-0.0015	0.0276	0.0212	-0.3772	0.9857	-0.0153	0.3203	-0.0155	0.3249
60	22.04	-0.08	-0.0732	-0.0015	0.0276	0.0205	-0.3772	0.9986	-0.0157	0.3233	-0.0157	0.3237
61	22.36	-0.08	-0.0645	-0.0016	0.0266	0.0248	-0.4125	1.0089	-0.0157	0.3257	-0.0156	0.3228
62	22.67	-0.09	-0.0850	-0.0012	0.0290	0.0141	-0.3409	1.0126	-0.0171	0.3263	-0.0169	0.3223
63	23.00	-0.10	-0.0763	-0.0014	0.0280	0.0190	-0.3667	1.0246	-0.0179	0.3295	-0.0175	0.3216
64	23.31	-0.10	-0.1082	-0.0010	0.0316	0.0092	-0.2925	1.0251	-0.0180	0.3271	-0.0176	0.3191
65	23.65	-0.09	-0.0997	-0.0011	0.0307	0.0110	-0.3077	1.0329	-0.0175	0.3303	-0.0170	0.3198
66	23.93	-0.10	-0.0734	-0.0016	0.0277	0.0218	-0.3780	1.0380	-0.0173	0.3320	-0.0167	0.3198
67	24.30	-0.09	-0.0647	-0.0017	0.0267	0.0270	-0.4133	1.0538	-0.0170	0.3347	-0.0161	0.3177
68	24.61	-0.10	-0.0370	-0.0022	0.0237	0.0608	-0.6398	1.0640	-0.0160	0.3378	-0.0151	0.3175
69	24.95	-0.08	-0.0413	-0.0023	0.0242	0.0557	-0.5869	1.0878	-0.0151	0.3429	-0.0121	0.3152
70	25.25	-0.09	-0.0500	-0.0022	0.0251	0.0450	-0.5028	1.1152	-0.0109	0.3493	-0.0098	0.3132
71	25.54	-0.10	-0.0355	-0.0024	0.0236	0.0690	-0.6640	1.1273	-0.0097	0.3521	-0.0086	0.3124
72	25.87	-0.10	0.0127	-0.0031	0.0181	-0.2480	1.4277	1.1430	-0.0068	0.3551	-0.0059	0.3106
73	26.18	-0.10	0.0142	-0.0032	0.0180	-0.2288	1.2698	1.1511	-0.0051	0.3569	-0.0045	0.3100
74	26.50	-0.10	-0.0165	-0.0028	0.0215	0.1697	-1.3031	1.1668	-0.0036	0.3607	-0.0031	0.3091
75	26.76	-0.11	0.0290	-0.0035	0.0165	-0.1224	0.5677	1.1748	-0.0008	0.3620	-0.0007	0.3081
76	27.09	-0.09	0.0142	-0.0031	0.0180	-0.2218	1.2698	1.1917	0.0025	0.3658	0.0021	0.3070
77	27.41	-0.09	0.0586	-0.0042	0.0131	-0.0717	0.2240	1.2061	0.0038	0.3698	0.0032	0.3066
78	27.71	-0.09	0.0614	-0.0040	0.0125	-0.0651	0.2094	1.2256	0.0078	0.3718	0.0064	0.3034
79	28.02	-0.09	0.0570	-0.0039	0.0133	-0.0693	0.2332	1.2262	0.0088	0.3718	0.0072	0.3032
80	28.36	-0.09	0.0570	-0.0040	0.0134	-0.0702	0.2350	1.2453	0.0091	0.3766	0.0073	0.3024
81	28.67	-0.10	0.0510	-0.0037	0.0140	-0.0735	0.2744	1.2489	0.0125	0.3757	0.0100	0.3009
82	28.98	-0.10	0.0376	-0.0034	0.0155	-0.0917	0.4130	1.2589	0.0139	0.3760	0.0110	0.2987
83	29.28	-0.09	0.0216	-0.0032	0.0173	-0.1504	0.8008	1.2637	0.0134	0.3793	0.0106	0.3001
84	29.60	-0.10	0.0373	-0.0030	0.0155	-0.0818	0.4163	1.2779	0.0177	0.3783	0.0139	0.2961
85	29.91	-0.08	-0.0129	-0.0022	0.0212	0.1744	-1.6435	1.2824	0.0221	0.3720	0.0173	0.2901
86	30.23	-0.11	-0.0071	-0.0022	0.0205	0.3098	-2.8921	1.2787	0.0224	0.3724	0.0175	0.2912

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 52 1.01 1.7 0.0 B2W2F12 16.750 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CH3	XC PF3	YCPF3	CNF4	CH4	CH4	XC PF4	YCPF4
1	-1.92	-0.05	0.0550	0.0019	-0.0063	0.0354	-0.1141	-0.0076	0.0043	-0.0191	-0.5657	2.5174
2	-1.30	0.01	0.0549	0.0015	-0.0063	0.0282	-0.1149	0.0154	0.0023	-0.0137	0.1526	-0.8876
3	-0.73	-0.05	0.0549	0.0015	-0.0063	0.0282	-0.1149	0.0257	0.0011	-0.0082	0.0428	-0.3205
4	-0.17	-0.03	0.0507	0.0012	-0.0052	0.0247	-0.1027	0.0373	0.0000	-0.0052	0.0013	-0.1386
5	0.37	0.02	0.0574	0.0009	-0.0053	0.0165	-0.0919	0.0504	-0.0009	-0.0025	-0.0188	-0.0497
6	0.91	-0.04	0.0529	0.0005	-0.0034	0.0104	-0.0638	0.0624	-0.0022	0.0013	-0.0353	0.0207
7	1.40	0.02	0.0528	0.0002	-0.0034	0.0047	-0.0645	0.0788	-0.0039	0.0071	-0.0501	0.0896
8	1.95	0.0	0.0527	0.0001	-0.0033	0.0028	-0.0634	0.0977	-0.0055	0.0117	-0.0568	0.1193
9	2.43	0.03	0.0559	0.0001	-0.0031	0.0018	-0.0550	0.1174	-0.0071	0.0188	-0.0605	0.1603
10	2.93	-0.03	0.0582	-0.0003	-0.0013	-0.0052	-0.0225	0.1396	-0.0085	0.0252	-0.0609	0.1806
11	3.39	-0.01	0.0580	-0.0007	-0.0013	-0.0121	-0.0220	0.1590	-0.0097	0.0296	-0.0610	0.1860
12	3.88	-0.04	0.0645	-0.0008	-0.0007	-0.0124	-0.0110	0.1772	-0.0112	0.0385	-0.0635	0.2175
13	4.33	-0.03	0.0520	-0.0012	0.0034	-0.0231	0.0659	0.2078	-0.0124	0.0460	-0.0599	0.2216
14	4.77	0.01	0.0664	-0.0012	0.0017	-0.0188	0.0260	0.2264	-0.0134	0.0541	-0.0594	0.2391
15	5.27	-0.02	0.0555	-0.0013	0.0030	-0.0234	0.0539	0.2493	-0.0140	0.0636	-0.0563	0.2550
16	5.74	-0.05	0.0640	-0.0016	0.0060	-0.0258	0.0942	0.2653	-0.0148	0.0688	-0.0560	0.2593
17	6.20	0.0	0.0674	-0.0021	0.0057	-0.0319	0.0840	0.2881	-0.0155	0.0790	-0.0539	0.2742
18	6.64	0.01	0.0539	-0.0016	0.0059	-0.0306	0.1087	0.3110	-0.0161	0.0867	-0.0517	0.2789
19	7.11	-0.07	0.0624	-0.0018	0.0089	-0.0288	0.1425	0.3333	-0.0164	0.0968	-0.0492	0.2903
20	7.56	0.05	0.0622	-0.0021	0.0088	-0.0338	0.1419	0.3547	-0.0170	0.1029	-0.0479	0.2901
21	8.02	-0.05	0.0656	-0.0025	0.0086	-0.0381	0.1305	0.3744	-0.0171	0.1104	-0.0458	0.2948
22	8.43	-0.15	0.0642	-0.0022	0.0113	-0.0343	0.1759	0.3944	-0.0177	0.1197	-0.0444	0.2997
23	8.85	0.03	0.0725	-0.0021	0.0084	-0.0290	0.1153	0.4270	-0.0175	0.1305	-0.0411	0.3056
24	9.28	-0.06	0.0716	-0.0018	0.0105	-0.0251	0.1461	0.4526	-0.0180	0.1376	-0.0398	0.3041
25	9.68	-0.05	0.0715	-0.0022	0.0104	-0.0308	0.1458	0.4693	-0.0185	0.1424	-0.0394	0.3034
26	10.11	-0.09	0.0807	-0.0021	0.0120	-0.0266	0.1486	0.4935	-0.0183	0.1542	-0.0372	0.3126
27	10.51	-0.01	0.0715	-0.0018	0.0104	-0.0252	0.1458	0.5107	-0.0185	0.1589	-0.0363	0.3111
28	10.93	-0.04	0.0729	-0.0017	0.0143	-0.0240	0.1960	0.5396	-0.0188	0.1676	-0.0349	0.3106
29	11.32	-0.02	0.0796	-0.0020	0.0141	-0.0257	0.1774	0.5581	-0.0190	0.1734	-0.0341	0.3106
30	11.71	-0.08	0.0787	-0.0017	0.0162	-0.0222	0.2062	0.5829	-0.0193	0.1817	-0.0332	0.3118
31	12.07	-0.07	0.0744	-0.0015	0.0180	-0.0208	0.2418	0.5961	-0.0194	0.1869	-0.0326	0.3136
32	12.46	-0.05	0.0823	-0.0014	0.0157	-0.0176	0.1911	0.6193	-0.0189	0.1944	-0.0306	0.3138
33	12.81	-0.03	0.0907	-0.0011	0.0128	-0.0127	0.1414	0.6417	-0.0189	0.2003	-0.0295	0.3122
34	13.17	-0.07	0.0800	-0.0010	0.0141	-0.0131	0.1757	0.6554	-0.0184	0.2052	-0.0281	0.3131
35	13.55	-0.05	0.0851	-0.0015	0.0168	-0.0182	0.1969	0.6815	-0.0186	0.2129	-0.0273	0.3124
36	13.90	-0.05	0.0601	-0.0015	0.0199	-0.0187	0.2483	0.6998	-0.0180	0.2203	-0.0258	0.3148
37	14.27	-0.07	0.0787	-0.0011	0.0161	-0.0146	0.2049	0.7117	-0.0177	0.2242	-0.0249	0.3151
38	14.65	-0.06	0.0902	-0.0017	0.0195	-0.0188	0.2157	0.7371	-0.0171	0.2311	-0.0233	0.3135
39	14.99	-0.06	0.0940	-0.0015	0.0183	-0.0160	0.1949	0.7523	-0.0171	0.2370	-0.0228	0.3150
40	15.32	-0.08	0.0906	-0.0011	0.0186	-0.0121	0.2052	0.7699	-0.0170	0.2439	-0.0221	0.3169
41	15.71	-0.07	0.0941	-0.0014	0.0183	-0.0149	0.1940	0.7908	-0.0165	0.2495	-0.0209	0.3155
42	16.04	-0.09	0.0943	-0.0007	0.0182	-0.0074	0.1932	0.8096	-0.0163	0.2559	-0.0202	0.3160
43	16.37	-0.05	0.1000	-0.0007	0.0202	-0.0070	0.2022	0.8344	-0.0162	0.2633	-0.0194	0.3155
44	16.67	-0.06	0.0942	-0.0011	0.0182	-0.0117	0.1931	0.8439	-0.0161	0.2672	-0.0191	0.3166
45	17.03	-0.06	0.0930	-0.0007	0.0210	-0.0075	0.2257	0.8678	-0.0155	0.2730	-0.0179	0.3146
46	17.36	-0.09	0.1048	-0.0010	0.0177	-0.0095	0.1641	0.8853	-0.0153	0.2781	-0.0173	0.3141

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 52 1.01 1.7 0.0 BZW2F12 16.750 0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCFF3	YCFF3	CNF4	CH4	CH4	XCFF4	YCFF4
47	17.70	-0.07	0.1011	-0.0014	0.0182	-0.0138	0.1799	0.9008	-0.0156	0.2810	-0.0174	0.3119
48	18.02	-0.05	0.1029	-0.0013	0.0213	-0.0131	0.2069	0.9186	-0.0155	0.2875	-0.0169	0.3130
49	18.36	-0.06	0.1029	-0.0007	0.0219	-0.0068	0.2127	0.9425	-0.0151	0.2957	-0.0161	0.3137
50	18.71	-0.10	0.1085	-0.0010	0.0239	-0.0097	0.2208	0.9666	-0.0152	0.3000	-0.0158	0.3104
51	19.03	-0.04	0.1071	-0.0011	0.0202	-0.0103	0.1885	0.9766	-0.0155	0.3044	-0.0159	0.3117
52	19.37	-0.09	0.1034	-0.0007	0.0214	-0.0068	0.2065	0.9961	-0.0150	0.3099	-0.0151	0.3111
53	19.69	-0.06	0.1022	-0.0001	0.0241	-0.0010	0.2354	1.0173	-0.0149	0.3173	-0.0146	0.3119
54	20.03	-0.07	0.1212	-0.0000	0.0265	-0.0004	0.2185	1.0346	-0.0141	0.3202	-0.0137	0.3094
55	20.35	-0.07	0.1236	-0.0006	0.0283	-0.0049	0.2288	1.0536	-0.0142	0.3252	-0.0135	0.3086
56	20.69	-0.09	0.1197	-0.0006	0.0228	-0.0054	0.1904	1.0596	-0.0148	0.3279	-0.0140	0.3094
57	21.05	-0.09	0.1241	0.0006	0.0281	0.0048	0.2268	1.0833	-0.0140	0.3347	-0.0130	0.3089
58	21.37	-0.10	0.1097	0.0005	0.0297	0.0050	0.2712	1.0898	-0.0148	0.3365	-0.0136	0.3088
59	21.70	-0.10	0.1184	0.0004	0.0262	0.0038	0.2217	1.1043	-0.0147	0.3399	-0.0134	0.3078
60	22.04	-0.08	0.1191	0.0010	0.0314	0.0084	0.2635	1.1214	-0.0137	0.3458	-0.0123	0.3083
61	22.36	-0.08	0.1289	0.0009	0.0322	0.0070	0.2502	1.1306	-0.0141	0.3470	-0.0125	0.3070
62	22.67	-0.09	0.1193	0.0009	0.0313	0.0075	0.2628	1.1376	-0.0136	0.3501	-0.0120	0.3077
63	23.00	-0.10	0.1330	0.0016	0.0319	0.0120	0.2400	1.1612	-0.0131	0.3572	-0.0113	0.3076
64	23.31	-0.10	0.1358	0.0023	0.0335	0.0169	0.2471	1.1664	-0.0118	0.3594	-0.0102	0.3081
65	23.65	-0.09	0.1334	0.0020	0.0318	0.0150	0.2388	1.1748	-0.0105	0.3608	-0.0090	0.3071
66	23.93	-0.10	0.1422	0.0033	0.0355	0.0236	0.2495	1.1869	-0.0088	0.3688	-0.0075	0.3107
67	24.30	-0.09	0.1386	0.0030	0.0360	0.0220	0.2596	1.1969	-0.0095	0.3690	-0.0079	0.3083
68	24.61	-0.10	0.1397	0.0026	0.0339	0.0190	0.2430	1.2150	-0.0080	0.3755	-0.0066	0.3090
69	24.95	-0.08	0.1491	0.0035	0.0362	0.0238	0.2427	1.2333	-0.0063	0.3808	-0.0051	0.3087
70	25.25	-0.09	0.1512	0.0037	0.0326	0.0248	0.2155	1.2418	-0.0048	0.3847	-0.0039	0.3098
71	25.54	-0.10	0.1456	0.0033	0.0300	0.0227	0.2062	1.2448	-0.0048	0.3851	-0.0039	0.3094
72	25.87	-0.10	0.1494	0.0036	0.0362	0.0244	0.2422	1.2646	-0.0036	0.3911	-0.0028	0.3093
73	26.18	-0.10	0.1431	0.0037	0.0357	0.0262	0.2494	1.2730	-0.0001	0.3955	-0.0001	0.3107
74	26.50	-0.10	0.1434	0.0039	0.0357	0.0275	0.2488	1.2806	0.0005	0.3984	0.0004	0.3111
75	26.76	-0.11	0.1553	0.0033	0.0324	0.0216	0.2089	1.2913	0.0026	0.4021	0.0021	0.3114
76	27.09	-0.09	0.1550	0.0050	0.0344	0.0323	0.2222	1.2998	0.0027	0.4049	0.0021	0.3115
77	27.41	-0.09	0.1434	0.0036	0.0299	0.0254	0.2084	1.2801	0.0122	0.4006	0.0096	0.3130
78	27.71	-0.09	0.1464	0.0045	0.0316	0.0311	0.2157	1.2875	0.0129	0.4019	0.0101	0.3122
79	28.02	-0.09	0.1540	0.0036	0.0360	0.0234	0.2339	1.2939	0.0124	0.4031	0.0096	0.3116
80	28.36	-0.09	0.1590	0.0050	0.0341	0.0314	0.2143	1.2831	0.0143	0.4001	0.0112	0.3119
81	28.67	-0.10	0.1569	0.0054	0.0384	0.0347	0.2446	1.2917	0.0143	0.4015	0.0111	0.3108
82	28.98	-0.10	0.1581	0.0046	0.0356	0.0291	0.2251	1.2895	0.0156	0.3990	0.0121	0.3094
83	29.28	-0.09	0.1754	0.0051	0.0364	0.0294	0.2078	1.2868	0.0169	0.3968	0.0132	0.3084
84	29.60	-0.10	0.1730	0.0061	0.0388	0.0343	0.2180	1.3012	0.0148	0.4011	0.0114	0.3082
85	29.91	-0.08	0.1757	0.0057	0.0371	0.0324	0.2114	1.2982	0.0157	0.4036	0.0121	0.3109
86	30.23	-0.11	0.1748	0.0061	0.0392	0.0349	0.2245	1.2988	0.0158	0.3968	0.0122	0.3055

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	53	1.05	1.7	0.0	82M2F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.01	-0.01	-0.3825	0.1586	0.1007	-0.1150	0.0190	0.3809	-0.4146		
2	-1.38	-0.03	-0.2565	0.1121	0.1315	-0.1091	0.0230	0.3945	-0.4370		
3	-0.82	0.0	-0.1550	0.0600	0.1686	-0.0260	0.0210	0.4021	-0.3871		
4	-0.28	-0.04	-0.0137	0.0182	0.1593	-0.0640	0.0180	0.3994	-1.3270		
5	0.28	-0.01	0.0511	0.0295	0.0955	-0.1047	0.0220	0.3975	0.5765		
6	0.79	-0.01	0.1914	0.0060	0.1101	-0.1031	0.0230	0.4055	0.0316		
7	1.30	-0.01	0.2740	-0.0156	0.1325	-0.0875	0.0240	0.4069	-0.0569		
8	1.85	-0.03	0.4141	-0.0699	0.1184	-0.0977	0.0240	0.4041	-0.1687		
9	2.32	0.01	0.4930	-0.1243	0.1745	-0.0513	0.0220	0.4048	-0.2522		
10	2.83	0.0	0.6521	-0.2251	0.1761	-0.0735	0.0210	0.4022	-0.3451		
11	3.30	0.02	0.7552	-0.3384	0.1587	-0.1332	0.0250	0.4002	-0.4481		
12	3.80	0.0	0.8981	-0.4674	0.1127	-0.0198	0.0270	0.4036	-0.5205		
13	4.26	-0.02	1.0509	-0.6433	0.1067	-0.1314	0.0210	0.3994	-0.6122		
14	4.73	0.0	1.1523	-0.7897	0.1705	-0.1347	0.0230	0.3964	-0.6652		
15	5.18	-0.07	1.2637	-0.9133	0.0401	-0.0571	0.0270	0.3944	-0.7227		
16	5.67	0.01	1.4333	-1.0858	0.1169	-0.1096	0.0210	0.3967	-0.7575		
17	6.10	0.02	1.5473	-1.2753	0.1027	-0.0278	0.0230	0.3977	-0.8242		
18	6.58	0.0	1.6920	-1.4369	0.0791	-0.1747	0.0250	0.3936	-0.8492		
19	7.02	-0.03	1.7681	-1.5074	0.1141	-0.1197	0.0310	0.3925	-0.8526		
20	7.57	0.05	1.9560	-1.7366	0.2102	-0.0623	0.0210	0.3909	-0.8878		
21	7.91	-0.02	2.0518	-1.8717	0.1483	-0.0326	0.0200	0.3927	-0.9122		
22	8.35	0.02	2.2454	-2.1247	0.0370	-0.0908	0.0180	0.3877	-0.9462		
23	8.81	-0.05	2.3740	-2.2657	0.1007	-0.0700	0.0220	0.3871	-0.9544		
24	9.59	-0.03	2.5350	-2.5611	0.0798	-0.0267	0.0220	0.3831	-1.0103		
25	10.04	0.03	2.7617	-2.8096	0.0546	-0.0044	0.0260	0.3816	-1.0173		
26	10.41	-0.01	2.8952	-2.9964	0.0833	-0.0986	0.0210	0.3788	-1.0350		
27	10.84	0.03	3.0137	-3.1293	0.0373	-0.0012	0.0220	0.3751	-1.0384		
28	11.23	-0.02	3.1415	-3.3062	0.0515	-0.0571	0.0300	0.3708	-1.0524		
29	11.64	-0.04	3.2704	-3.4517	0.0787	-0.0922	0.0280	0.3683	-1.0554		
30	12.00	-0.05	3.4285	-3.6420	0.0280	-0.1062	0.0220	0.3607	-1.0623		
31	12.39	-0.04	3.5373	-3.7564	0.0488	-0.0533	0.0280	0.3582	-1.0619		
32	12.73	-0.04	3.6616	-3.9354	0.0644	-0.0222	0.0410	0.3570	-1.0748		
33	13.08	-0.05	3.7775	-4.1267	0.0724	-0.0554	0.0310	0.3561	-1.0924		
34	13.47	-0.04	3.9446	-4.2386	0.1269	-0.0577	0.0330	0.3512	-1.0745		
35	13.83	-0.05	4.0772	-4.4112	0.0490	-0.0184	0.0360	0.3481	-1.0819		
36	14.19	-0.05	4.2000	-4.5931	0.0793	-0.0100	0.0270	0.3444	-1.0936		
37	14.52	-0.04	4.3239	-4.7217	0.1383	-0.0246	0.0280	0.3442	-1.0920		
38	14.91	-0.05	4.4695	-4.9245	0.1145	-0.0373	0.0270	0.3366	-1.1018		
39	15.28	-0.06	4.5975	-5.0507	0.0304	-0.0336	0.0280	0.3358	-1.0986		
40	15.59	-0.05	4.7127	-5.2359	0.0907	-0.0510	0.0260	0.3324	-1.1110		
41	15.92	-0.07	4.7766	-5.3624	0.0366	-0.0598	0.0280	0.3319	-1.1226		
42	16.28	-0.08	4.9636	-5.6181	-0.0584	-0.0528	0.0270	0.3211	-1.1319		
43	16.61	-0.08	5.0828	-5.7551	-0.0281	-0.0107	0.0190	0.3176	-1.1323		
44	16.97	-0.08	5.2514	-5.9782	-0.0185	-0.0319	0.0200	0.3098	-1.1384		
45	17.31	-0.06	5.3909	-6.1434	0.0434	-0.0742	0.0240	0.3045	-1.1396		
46	17.63	-0.07	5.4804	-6.2607	0.0228	-0.0401	0.0250	0.3063	-1.1424		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 53 1.05 1.7			0.0	82W2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	17.97	-0.08	5.6180	-6.4213	0.0374	0.0466	0.0170	0.3026	-1.1430	
48	18.30	-0.09	5.7216	-6.5894	-0.0419	0.1586	0.0190	0.3001	-1.1517	
49	18.60	-0.09	5.8481	-6.7346	0.0075	0.0395	0.0080	0.2946	-1.1516	
50	18.95	-0.09	5.9634	-6.9030	-0.0196	0.1404	0.0180	0.2882	-1.1576	
51	19.27	-0.10	6.0881	-7.0595	-0.0544	0.0602	0.0140	0.2868	-1.1596	
52	19.60	-0.08	6.1820	-7.1710	0.0109	0.0927	0.0060	0.2808	-1.1600	
53	19.93	-0.09	6.3367	-7.2675	-0.1030	0.2532	0.0060	0.2782	-1.1469	
54	20.28	-0.08	6.4825	-7.4216	-0.0455	0.2227	0.0	0.2737	-1.1449	
55	20.62	-0.08	6.6056	-7.5711	0.0246	0.1655	-0.0060	0.2664	-1.1462	
56	20.97	-0.08	6.7499	-7.6631	0.0051	0.2092	-0.0100	0.2630	-1.1353	
57	21.30	-0.10	6.8151	-7.7874	-0.0722	0.1261	-0.0080	0.2584	-1.1427	
58	21.64	-0.07	6.9977	-7.9230	0.0558	0.1089	-0.0150	0.2532	-1.1322	
59	21.98	-0.08	7.1216	-7.9535	-0.0552	0.2502	-0.0210	0.2558	-1.1168	
60	22.30	-0.07	7.2530	-8.0374	0.0471	0.2070	-0.0130	0.2479	-1.1082	
61	22.63	-0.09	7.3637	-8.0855	-0.0212	0.0927	-0.0170	0.2463	-1.0980	
62	22.90	-0.08	7.4509	-8.0596	0.0640	0.0894	-0.0150	0.2438	-1.0817	
63	23.27	-0.08	7.6311	-8.0359	0.0491	0.0653	-0.0250	0.2438	-1.0530	
64	23.58	-0.07	7.7300	-8.1393	0.1228	0.0401	-0.0290	0.2452	-1.0530	
65	23.90	-0.10	7.8968	-8.1249	0.0294	-0.0132	-0.0330	0.2443	-1.0289	
66	24.24	-0.08	8.0270	-8.1491	0.0269	0.1263	-0.0480	0.2399	-1.0152	
67	24.57	-0.09	8.1350	-8.1975	0.1039	0.0245	-0.0530	0.2375	-1.0077	
68	24.93	-0.11	8.3010	-8.2464	-0.0883	0.1696	-0.0480	0.2310	-0.9935	
69	25.17	-0.08	8.3551	-8.2916	0.0474	0.1096	-0.0580	0.2267	-0.9924	
70	25.53	-0.09	8.4753	-8.3649	-0.0848	0.2787	-0.0440	0.2219	-0.9870	
71	25.79	-0.10	8.5764	-8.3274	-0.0072	0.1401	-0.0750	0.2163	-0.9710	
72	26.16	-0.09	8.8027	-8.3714	0.0384	0.2002	-0.0700	0.2088	-0.9510	
73	26.44	-0.10	8.9407	-8.3826	0.0007	0.2100	-0.0640	0.2028	-0.9376	
74	26.76	-0.09	9.0921	-8.3755	0.0017	0.3316	-0.0760	0.1962	-0.9212	
75	27.08	-0.10	9.2103	-8.3830	-0.0263	0.2728	-0.0870	0.1920	-0.9102	
76	27.37	-0.09	9.3631	-8.4265	0.0637	0.1978	-0.0890	0.1834	-0.9000	
77	27.69	-0.12	9.5110	-8.4560	-0.2047	0.4135	-0.0870	0.1708	-0.8891	
78	28.04	-0.10	9.6253	-8.5071	-0.1501	0.5321	-0.0910	0.1578	-0.8838	
79	28.35	-0.10	9.8369	-8.5144	-0.0791	0.4217	-0.1140	0.1490	-0.8656	
80	28.63	-0.10	9.9813	-8.5515	-0.1813	0.7287	-0.1150	0.1372	-0.8568	
81	28.96	-0.09	10.1710	-8.5411	-0.0302	0.3922	-0.1390	0.1319	-0.8417	
82	29.25	-0.11	10.2479	-8.6267	-0.2082	0.6464	-0.1310	0.1277	-0.8418	
83	29.59	-0.10	10.3698	-8.5546	-0.1902	0.6932	-0.1300	0.1107	-0.8249	
84	29.89	-0.10	10.5369	-8.6505	-0.0409	0.3412	-0.1310	0.1091	-0.8210	
85	30.24	-0.10	10.7185	-8.6217	-0.0198	0.3307	-0.1320	0.0904	-0.8044	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		53	1.05 1.7	0.0	82W2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	C81	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.01	-0.01	-0.2734	0.0014	0.0495	-0.0051	-0.1810	-0.0243	0.0035	-0.0266	-0.1461	1.0945
2	-1.38	-0.03	-0.2747	0.0014	0.0496	-0.0053	-0.1806	-0.0128	0.0021	-0.0189	-0.1679	1.4738
3	-0.82	0.0	-0.2692	0.0013	0.0491	-0.0050	-0.1824	0.0017	0.0008	-0.0127	0.4999	-7.4903
4	-0.28	-0.04	-0.2675	0.0014	0.0488	-0.0052	-0.1827	0.0113	0.0000	-0.0087	0.0044	-0.7730
5	0.28	-0.01	-0.2604	0.0012	0.0480	-0.0048	-0.1845	0.0186	-0.0002	-0.0064	-0.0108	-0.3442
6	0.79	-0.01	-0.2549	0.0012	0.0475	-0.0047	-0.1862	0.0258	-0.0008	-0.0029	-0.0329	-0.1125
7	1.30	-0.01	-0.2602	0.0012	0.0480	-0.0048	-0.1845	0.0349	-0.0022	0.0043	-0.0645	0.1240
8	1.85	-0.03	-0.3141	0.0012	0.0634	-0.0040	-0.2018	0.0511	-0.0032	0.0086	-0.0636	0.1688
9	2.32	0.01	-0.2601	0.0012	0.0475	-0.0048	-0.1845	0.0620	-0.0043	0.0136	-0.0701	0.2187
10	2.83	0.0	-0.2639	0.0013	0.0484	-0.0049	-0.1833	0.0758	-0.0057	0.0231	-0.0758	0.3042
11	3.30	0.02	-0.2583	0.0012	0.0477	-0.0046	-0.1848	0.0959	-0.0071	0.0279	-0.0740	0.2905
12	3.80	0.0	-0.2498	0.0010	0.0468	-0.0042	-0.1872	0.1086	-0.0075	0.0357	-0.0690	0.3286
13	4.26	-0.02	-0.2526	0.0012	0.0470	-0.0047	-0.1862	0.1315	-0.0090	0.0458	-0.0684	0.3484
14	4.73	0.0	-0.2494	0.0010	0.0467	-0.0042	-0.1872	0.1562	-0.0102	0.0529	-0.0656	0.3390
15	5.18	-0.07	-0.2578	0.0012	0.0476	-0.0048	-0.1846	0.1688	-0.0112	0.0614	-0.0666	0.3640
16	5.67	0.01	-0.2578	0.0012	0.0477	-0.0048	-0.1850	0.1929	-0.0125	0.0717	-0.0650	0.3716
17	6.10	0.02	-0.2532	0.0011	0.0471	-0.0045	-0.1861	0.2163	-0.0135	0.0780	-0.0626	0.3605
18	6.58	0.0	-0.2575	0.0012	0.0476	-0.0049	-0.1848	0.2329	-0.0141	0.0867	-0.0605	0.3723
19	7.02	-0.03	-0.2629	0.0012	0.0482	-0.0048	-0.1833	0.2521	-0.0150	0.0951	-0.0597	0.3772
20	7.47	0.05	-0.2660	0.0013	0.0486	-0.0049	-0.1826	0.2728	-0.0158	0.1046	-0.0579	0.3834
21	7.91	-0.02	-0.2674	0.0013	0.0487	-0.0049	-0.1821	0.2908	-0.0164	0.1121	-0.0565	0.3655
22	8.35	0.02	-0.2660	0.0013	0.0486	-0.0049	-0.1826	0.3139	-0.0172	0.1209	-0.0549	0.3851
23	8.81	-0.05	-0.2769	0.0014	0.0498	-0.0051	-0.1798	0.3384	-0.0176	0.1286	-0.0521	0.3799
24	9.59	-0.03	-0.2588	0.0012	0.0478	-0.0046	-0.1846	0.3785	-0.0184	0.1437	-0.0487	0.3797
25	10.04	0.03	-0.2590	0.0012	0.0478	-0.0046	-0.1845	0.4081	-0.0192	0.1550	-0.0470	0.3798
26	10.41	-0.01	-0.2716	0.0014	0.0492	-0.0052	-0.1811	0.4264	-0.0198	0.1621	-0.0464	0.3801
27	10.84	0.03	-0.2716	0.0014	0.0492	-0.0052	-0.1811	0.4478	-0.0202	0.1668	-0.0451	0.3725
28	11.23	-0.02	-0.2674	0.0013	0.0487	-0.0049	-0.1821	0.4623	-0.0204	0.1729	-0.0442	0.3741
29	11.64	-0.04	-0.2660	0.0013	0.0486	-0.0049	-0.1826	0.4821	-0.0205	0.1788	-0.0426	0.3710
30	12.00	-0.05	-0.2632	0.0012	0.0483	-0.0047	-0.1835	0.5017	-0.0208	0.1861	-0.0414	0.3709
31	12.39	-0.04	-0.2676	0.0013	0.0487	-0.0049	-0.1821	0.5180	-0.0205	0.1911	-0.0397	0.3689
32	12.73	-0.04	-0.2673	0.0013	0.0487	-0.0049	-0.1823	0.5375	-0.0204	0.1959	-0.0379	0.3645
33	13.08	-0.05	-0.2573	0.0011	0.0476	-0.0045	-0.1849	0.5610	-0.0200	0.2010	-0.0356	0.3583
34	13.47	-0.04	-0.2716	0.0014	0.0492	-0.0052	-0.1811	0.5684	-0.0199	0.2052	-0.0351	0.3610
35	13.83	-0.05	-0.2518	0.0010	0.0476	-0.0042	-0.1866	0.5831	-0.0196	0.2093	-0.0337	0.3589
36	14.19	-0.05	-0.2366	0.0008	0.0453	-0.0036	-0.1913	0.6017	-0.0196	0.2156	-0.0326	0.3583
37	14.52	-0.04	-0.2351	0.0008	0.0451	-0.0036	-0.1917	0.6152	-0.0194	0.2196	-0.0315	0.3569
38	14.91	-0.05	-0.2351	0.0008	0.0451	-0.0036	-0.1917	0.6364	-0.0192	0.2249	-0.0302	0.3533
39	15.28	-0.06	-0.2097	0.0005	0.0422	-0.0024	-0.2014	0.6581	-0.0187	0.2312	-0.0284	0.3513
40	15.59	-0.05	-0.2069	0.0004	0.0420	-0.0019	-0.2028	0.6730	-0.0175	0.2345	-0.0261	0.3485
41	15.92	-0.07	-0.1873	0.0001	0.0397	-0.0008	-0.2119	0.6903	-0.0170	0.2398	-0.0247	0.3474
42	16.28	-0.08	-0.1687	0.0001	0.0398	-0.0008	-0.2110	0.7204	-0.0158	0.2460	-0.0220	0.3415
43	16.61	-0.08	-0.1817	0.0	0.0390	0.0	-0.2149	0.7402	-0.0156	0.2519	-0.0211	0.3404
44	16.97	-0.08	-0.1789	0.0	0.0388	0.0	-0.2168	0.7612	-0.0145	0.2580	-0.0191	0.3390
45	17.31	-0.06	-0.1734	-0.0000	0.0381	0.0003	-0.2198	0.7818	-0.0141	0.2604	-0.0181	0.3331
46	17.63	-0.07	-0.1595	-0.0002	0.0365	0.0013	-0.2292	0.7977	-0.0142	0.2662	-0.0178	0.3337

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI CONF		L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 53 1.05 1.7			0.0 82W2F12		16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	17.97	-0.08	-0.1540	-0.0002	0.0360	0.0016	-0.2337	0.8099	-0.0136	0.2707	-0.0168	0.3342
48	18.30	-0.09	-0.1400	-0.0005	0.0344	0.0036	-0.2461	0.8315	-0.0136	0.2742	-0.0163	0.3297
49	18.60	-0.09	-0.1372	-0.0005	0.0341	0.0040	-0.2484	0.8494	-0.0136	0.2782	-0.0160	0.3276
50	18.95	-0.09	-0.1318	-0.0006	0.0335	0.0046	-0.2540	0.8628	-0.0139	0.2817	-0.0162	0.3265
51	19.27	-0.10	-0.1375	-0.0005	0.0342	0.0036	-0.2486	0.8875	-0.0137	0.2878	-0.0154	0.3243
52	19.60	-0.08	-0.1193	-0.0008	0.0321	0.0067	-0.2695	0.8966	-0.0133	0.2885	-0.0149	0.3217
53	19.93	-0.09	-0.1138	-0.0008	0.0315	0.0075	-0.2766	0.9162	-0.0137	0.2963	-0.0149	0.3234
54	20.28	-0.08	-0.1263	-0.0007	0.0329	0.0055	-0.2606	0.9316	-0.0139	0.3004	-0.0150	0.3225
55	20.62	-0.08	-0.0915	-0.0012	0.0290	0.0137	-0.3171	0.9434	-0.0141	0.3042	-0.0150	0.3224
56	20.97	-0.08	-0.0818	-0.0014	0.0279	0.0171	-0.3416	0.9633	-0.0140	0.3090	-0.0145	0.3208
57	21.30	-0.10	-0.0818	-0.0014	0.0279	0.0177	-0.3416	0.9785	-0.0142	0.3127	-0.0145	0.3195
58	21.64	-0.07	-0.0777	-0.0014	0.0275	0.0187	-0.3540	1.0003	-0.0149	0.3170	-0.0149	0.3169
59	21.98	-0.08	-0.0762	-0.0015	0.0273	0.0197	-0.3584	1.0099	-0.0151	0.3226	-0.0149	0.3195
60	22.30	-0.07	-0.0539	-0.0018	0.0248	0.0343	-0.4608	1.0209	-0.0152	0.3242	-0.0149	0.3175
61	22.63	-0.09	-0.0764	-0.0014	0.0273	0.0190	-0.3579	1.0228	-0.0163	0.3220	-0.0160	0.3148
62	22.90	-0.08	-0.0708	-0.0015	0.0268	0.0219	-0.3786	1.0228	-0.0168	0.3228	-0.0164	0.3156
63	23.27	-0.08	-0.0708	-0.0015	0.0268	0.0219	-0.3786	1.0238	-0.0178	0.3252	-0.0174	0.3176
64	23.58	-0.07	-0.0538	-0.0019	0.0249	0.0362	-0.4623	1.0297	-0.0187	0.3261	-0.0182	0.3167
65	23.90	-0.10	-0.0537	-0.0020	0.0248	0.0382	-0.4619	1.0401	-0.0198	0.3285	-0.0190	0.3158
66	24.24	-0.08	-0.0298	-0.0024	0.0222	0.0805	-0.7440	1.0394	-0.0204	0.3290	-0.0196	0.3166
67	24.57	-0.09	-0.0255	-0.0025	0.0216	0.1000	-0.8472	1.0437	-0.0213	0.3303	-0.0204	0.3165
68	24.93	-0.11	-0.0269	-0.0026	0.0218	0.0966	-0.8118	1.0575	-0.0212	0.3329	-0.0200	0.3148
69	25.17	-0.08	-0.0114	-0.0029	0.0201	0.2543	-1.7633	1.0714	-0.0205	0.3356	-0.0191	0.3132
70	25.53	-0.09	-0.0422	-0.0024	0.0235	0.0580	-0.5578	1.0781	-0.0211	0.3396	-0.0196	0.3150
71	25.79	-0.10	0.0083	-0.0033	0.0179	-0.3975	2.1525	1.0989	-0.0207	0.3435	-0.0189	0.3126
72	26.16	-0.09	0.0169	-0.0035	0.0169	-0.2100	1.0019	1.1081	-0.0213	0.3446	-0.0193	0.3110
73	26.44	-0.10	-0.0337	-0.0027	0.0227	0.0801	-0.6727	1.1115	-0.0216	0.3470	-0.0195	0.3122
74	26.76	-0.09	0.0310	-0.0038	0.0154	-0.1242	0.4977	1.1094	-0.0215	0.3449	-0.0194	0.3109
75	27.08	-0.10	0.0786	-0.0044	0.0101	-0.0566	0.1284	1.1297	-0.0210	0.3498	-0.0186	0.3097
76	27.37	-0.09	0.0689	-0.0043	0.0112	-0.0631	0.1620	1.1374	-0.0211	0.3515	-0.0185	0.3090
77	27.69	-0.12	0.0450	-0.0040	0.0135	-0.0889	0.3088	1.1559	-0.0191	0.3569	-0.0165	0.3087
78	28.04	-0.10	0.0789	-0.0046	0.0100	-0.0583	0.1266	1.1669	-0.0181	0.3599	-0.0155	0.3079
79	28.35	-0.10	0.0774	-0.0044	0.0102	-0.0568	0.1317	1.1986	-0.0163	0.3681	-0.0136	0.3071
80	28.63	-0.10	0.1071	-0.0050	0.0069	-0.0467	0.0643	1.2041	-0.0165	0.3692	-0.0137	0.3066
81	28.96	-0.09	0.0902	-0.0046	0.0088	-0.0515	0.0771	1.2217	-0.0158	0.3742	-0.0130	0.3063
82	29.25	-0.11	0.1071	-0.0049	0.0069	-0.0457	0.0643	1.2250	-0.0154	0.3749	-0.0126	0.3060
83	29.59	-0.10	0.1577	-0.0056	0.0012	-0.0355	0.0079	1.2234	-0.0165	0.3732	-0.0135	0.3050
84	29.89	-0.10	0.1098	-0.0048	0.0066	-0.0437	0.0600	1.2332	-0.0161	0.3754	-0.0131	0.3044
85	30.24	-0.10	0.1636	-0.0057	0.0006	-0.0348	0.0038	1.2433	-0.0156	0.3779	-0.0125	0.3039

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6			53	1.05	1.7	0.0	82W2F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
1	-2.01	-0.01	0.0629	0.0015	-0.0065	0.0238	-0.1040	-0.0121	0.0044	-0.0228	-0.3636	1.8869	
2	-1.38	-0.03	0.0512	0.0011	-0.0032	0.0215	-0.0633	0.0098	0.0026	-0.0160	0.2653	-1.6362	
3	-0.82	0.0	0.0588	0.0009	-0.0054	0.0162	-0.0920	0.0277	0.0010	-0.0101	0.0361	-0.3635	
4	-0.28	-0.04	0.0579	0.0006	-0.0040	0.0112	-0.0692	0.0390	-0.0001	-0.0064	-0.0038	-0.1642	
5	0.28	-0.01	0.0579	0.0005	-0.0040	0.0095	-0.0692	0.0511	-0.0008	-0.0040	-0.0166	-0.0777	
6	0.79	-0.01	0.0588	0.0001	-0.0061	0.0026	-0.1039	0.0601	-0.0020	-0.0007	-0.0333	-0.0112	
7	1.30	-0.01	0.0506	-0.0002	-0.0032	-0.0040	-0.0640	0.0768	-0.0034	0.0046	-0.0449	0.0598	
8	1.85	-0.03	0.0534	-0.0009	-0.0028	-0.0169	-0.0526	0.0964	-0.0051	0.0098	-0.0534	0.1019	
9	2.32	0.01	0.0505	-0.0003	-0.0032	-0.0059	-0.0628	0.1072	-0.0060	0.0139	-0.0560	0.1299	
10	2.83	0.0	0.0556	-0.0012	-0.0012	-0.0225	-0.0211	0.1388	-0.0077	0.0221	-0.0555	0.1596	
11	3.30	0.02	0.0555	-0.0015	-0.0011	-0.0279	-0.0199	0.1545	-0.0087	0.0285	-0.0563	0.1843	
12	3.80	0.0	0.0619	-0.0021	-0.0013	-0.0339	-0.0206	0.1847	-0.0104	0.0379	-0.0563	0.2054	
13	4.26	-0.02	0.0628	-0.0031	0.0025	-0.0494	0.0402	0.2122	-0.0119	0.0464	-0.0561	0.2187	
14	4.73	0.0	0.0630	-0.0025	0.0025	-0.0495	0.0396	0.2318	-0.0125	0.0548	-0.0541	0.2366	
15	5.18	-0.07	0.0531	-0.0022	0.0029	-0.0414	0.0545	0.2497	-0.0133	0.0600	-0.0535	0.2403	
16	5.67	0.01	0.0688	-0.0026	0.0037	-0.0378	0.0541	0.2809	-0.0143	0.0697	-0.0509	0.2482	
17	6.10	0.02	0.0747	-0.0030	0.0044	-0.0402	0.0588	0.3041	-0.0150	0.0776	-0.0495	0.2553	
18	6.58	0.0	0.0645	-0.0026	0.0055	-0.0403	0.0552	0.3291	-0.0158	0.0864	-0.0481	0.2624	
19	7.02	-0.03	0.0654	-0.0021	0.0041	-0.0329	0.0626	0.3413	-0.0163	0.0926	-0.0479	0.2714	
20	7.47	0.05	0.0784	-0.0026	0.0039	-0.0332	0.0501	0.3663	-0.0171	0.1016	-0.0467	0.2773	
21	7.91	-0.02	0.0824	-0.0030	0.0086	-0.0370	0.1038	0.3906	-0.0176	0.1109	-0.0452	0.2838	
22	8.35	0.02	0.0826	-0.0024	0.0085	-0.0291	0.1032	0.4140	-0.0177	0.1199	-0.0427	0.2895	
23	8.81	-0.05	0.0687	-0.0026	0.0101	-0.0378	0.1469	0.4345	-0.0182	0.1280	-0.0420	0.2946	
24	9.59	-0.03	0.0802	-0.0021	0.0069	-0.0262	0.0863	0.4815	-0.0189	0.1423	-0.0393	0.2954	
25	10.04	0.03	0.0931	-0.0021	0.0073	-0.0226	0.0786	0.5125	-0.0193	0.1549	-0.0376	0.3022	
26	10.41	-0.01	0.0945	-0.0020	0.0110	-0.0217	0.1163	0.5351	-0.0193	0.1612	-0.0361	0.3013	
27	10.84	0.03	0.0807	-0.0020	0.0125	-0.0248	0.1548	0.5531	-0.0196	0.1667	-0.0354	0.3014	
28	11.23	-0.02	0.0829	-0.0015	0.0085	-0.0181	0.1028	0.5695	-0.0196	0.1727	-0.0345	0.3032	
29	11.64	-0.04	0.0925	-0.0016	0.0150	-0.0178	0.1624	0.5954	-0.0199	0.1823	-0.0334	0.3062	
30	12.00	-0.05	0.0909	-0.0014	0.0120	-0.0154	0.1319	0.6129	-0.0200	0.1888	-0.0326	0.3081	
31	12.39	-0.04	0.0948	-0.0014	0.0109	-0.0148	0.1149	0.6256	-0.0198	0.1945	-0.0317	0.3108	
32	12.73	-0.04	0.0912	-0.0014	0.0114	-0.0153	0.1249	0.6439	-0.0199	0.2004	-0.0310	0.3112	
33	13.08	-0.05	0.0910	-0.0010	0.0119	-0.0110	0.1310	0.6683	-0.0193	0.2076	-0.0289	0.3109	
34	13.47	-0.04	0.0927	-0.0011	0.0150	-0.0119	0.1617	0.6842	-0.0187	0.2128	-0.0273	0.3110	
35	13.83	-0.05	0.0927	-0.0011	0.0150	-0.0119	0.1617	0.7078	-0.0189	0.2193	-0.0268	0.3099	
36	14.19	-0.05	0.0927	-0.0011	0.0150	-0.0119	0.1617	0.7271	-0.0183	0.2239	-0.0252	0.3079	
37	14.52	-0.04	0.0967	-0.0014	0.0196	-0.0150	0.2029	0.7483	-0.0178	0.2307	-0.0238	0.3084	
38	14.91	-0.05	0.1070	-0.0014	0.0185	-0.0131	0.1725	0.7710	-0.0175	0.2378	-0.0227	0.3084	
39	15.28	-0.06	0.1014	-0.0007	0.0108	-0.0069	0.1064	0.7815	-0.0173	0.2420	-0.0221	0.3097	
40	15.59	-0.05	0.1049	-0.0014	0.0161	-0.0138	0.1530	0.8003	-0.0169	0.2493	-0.0211	0.3115	
41	15.92	-0.07	0.1025	-0.0013	0.0145	-0.0132	0.1410	0.8155	-0.0170	0.2543	-0.0208	0.3119	
42	16.28	-0.08	0.1064	-0.0010	0.0134	-0.0099	0.1255	0.8414	-0.0165	0.2610	-0.0196	0.3102	
43	16.61	-0.08	0.1121	-0.0006	0.0153	-0.0058	0.1361	0.8584	-0.0162	0.2660	-0.0189	0.3099	
44	16.97	-0.08	0.1107	-0.0006	0.0180	-0.0059	0.1625	0.8843	-0.0159	0.2748	-0.0180	0.3107	
45	17.31	-0.06	0.1238	-0.0006	0.0177	-0.0052	0.1434	0.9005	-0.0159	0.2797	-0.0177	0.3106	
46	17.63	-0.07	0.1187	-0.0005	0.0151	-0.0046	0.1277	0.9224	-0.0157	0.2851	-0.0171	0.3090	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	OEL1	JEL2	OEL3	DEL4	TRANSITION	
6			53	1.05	1.7	0.0	82W2F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4	
47	17.97	-0.08	0.1200	-0.0005	0.0188	-0.0046	0.1565	0.9378	-0.0158	0.2885	-0.0169	0.3076	
48	18.30	-0.09	0.1108	-0.0003	0.0179	-0.0032	0.1617	0.9539	-0.0159	0.2938	-0.0167	0.3080	
49	18.60	-0.09	0.1178	-0.0000	0.0235	-0.0004	0.1999	0.9764	-0.0160	0.2995	-0.0164	0.3067	
50	18.95	-0.09	0.1226	-0.0006	0.0204	-0.0049	0.1668	0.9938	-0.0160	0.3035	-0.0161	0.3053	
51	19.27	-0.10	0.1215	0.0000	0.0232	0.0004	0.1908	1.0105	-0.0159	0.3092	-0.0158	0.3060	
52	19.60	-0.08	0.1283	-0.0004	0.0223	-0.0031	0.1742	1.0243	-0.0158	0.3123	-0.0154	0.3049	
53	19.93	-0.09	0.1213	0.0004	0.0174	0.0033	0.1436	1.0371	-0.0157	0.3150	-0.0152	0.3037	
54	20.28	-0.08	0.1286	0.0004	0.0223	0.0035	0.1738	1.0591	-0.0155	0.3207	-0.0146	0.3028	
55	20.62	-0.08	0.1366	0.0004	0.0259	0.0029	0.1847	1.0806	-0.0156	0.3273	-0.0144	0.3029	
56	20.97	-0.08	0.1304	0.0008	0.0259	0.0065	0.1990	1.0925	-0.0152	0.3308	-0.0139	0.3028	
57	21.30	-0.10	0.1373	0.0005	0.0253	0.0036	0.1846	1.1075	-0.0150	0.3350	-0.0136	0.3025	
58	21.64	-0.07	0.1461	0.0009	0.0275	0.0062	0.1881	1.1212	-0.0150	0.3407	-0.0134	0.3039	
59	21.98	-0.08	0.1372	0.0009	0.0255	0.0069	0.1889	1.1321	-0.0151	0.3418	-0.0134	0.3020	
60	22.30	-0.07	0.1322	0.0012	0.0232	0.0095	0.1759	1.1449	-0.0154	0.3448	-0.0135	0.3012	
61	22.63	-0.09	0.1388	0.0019	0.0302	0.0140	0.2179	1.1557	-0.0148	0.3489	-0.0128	0.3019	
62	22.90	-0.08	0.1427	0.0013	0.0349	0.0091	0.2449	1.1667	-0.0154	0.3480	-0.0132	0.2982	
63	23.27	-0.08	0.1381	0.0018	0.0316	0.0134	0.2289	1.1703	-0.0156	0.3497	-0.0134	0.2988	
64	23.58	-0.07	0.1500	0.0023	0.0341	0.0153	0.2272	1.1849	-0.0156	0.3522	-0.0132	0.2973	
65	23.90	-0.10	0.1485	0.0028	0.0310	0.0192	0.2086	1.1933	-0.0159	0.3549	-0.0134	0.2974	
66	24.24	-0.08	0.1600	0.0028	0.0335	0.0178	0.2095	1.2048	-0.0156	0.3572	-0.0129	0.2965	
67	24.57	-0.09	0.1656	0.0034	0.0354	0.0208	0.2137	1.2164	-0.0154	0.3592	-0.0127	0.2953	
68	24.93	-0.11	0.1602	0.0034	0.0335	0.0215	0.2090	1.2215	-0.0152	0.3620	-0.0124	0.2964	
69	25.17	-0.08	0.1638	0.0028	0.0324	0.0174	0.1977	1.2305	-0.0148	0.3634	-0.0121	0.2953	
70	25.53	-0.09	0.1575	0.0024	0.0319	0.0156	0.2024	1.2400	-0.0145	0.3662	-0.0117	0.2953	
71	25.79	-0.10	0.1638	0.0025	0.0325	0.0153	0.1983	1.2445	-0.0143	0.3679	-0.0115	0.2956	
72	26.16	-0.09	0.1485	0.0024	0.0304	0.0165	0.2046	1.2612	-0.0130	0.3721	-0.0103	0.2951	
73	26.44	-0.10	0.1625	0.0030	0.0294	0.0188	0.1812	1.2641	-0.0127	0.3733	-0.0100	0.2953	
74	26.76	-0.09	0.1630	0.0030	0.0352	0.0184	0.2160	1.2811	-0.0120	0.3774	-0.0094	0.2946	
75	27.08	-0.10	0.1701	0.0033	0.0344	0.0194	0.2021	1.2893	-0.0117	0.3822	-0.0091	0.2965	
76	27.37	-0.09	0.1687	0.0033	0.0371	0.0196	0.2200	1.3065	-0.0109	0.3870	-0.0083	0.2963	
77	27.69	-0.12	0.1648	0.0035	0.0325	0.0215	0.1973	1.3204	-0.0100	0.3905	-0.0076	0.2957	
78	28.04	-0.10	0.1587	0.0039	0.0319	0.0249	0.2009	1.3248	-0.0092	0.3947	-0.0070	0.2980	
79	28.35	-0.10	0.1681	0.0036	0.0328	0.0217	0.1952	1.3456	-0.0092	0.3985	-0.0068	0.2961	
80	28.63	-0.10	0.1710	0.0046	0.0344	0.0272	0.2011	1.3504	-0.0086	0.4022	-0.0064	0.2978	
81	28.96	-0.09	0.1778	0.0048	0.0343	0.0273	0.1932	1.3592	-0.0083	0.4053	-0.0061	0.2982	
82	29.25	-0.11	0.1674	0.0038	0.0350	0.0230	0.2090	1.3695	-0.0083	0.4067	-0.0061	0.2969	
83	29.59	-0.10	0.1796	0.0048	0.0373	0.0270	0.2074	1.3735	-0.0070	0.4090	-0.0051	0.2978	
84	29.89	-0.10	0.1699	0.0048	0.0372	0.0285	0.2190	1.3791	-0.0072	0.4110	-0.0052	0.2980	
85	30.24	-0.10	0.1699	0.0044	0.0372	0.0262	0.2190	1.3832	-0.0062	0.4096	-0.0045	0.2961	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	54	1.10	1.7	0.0	B2W2F12	16.750	0	0	0	0
										FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.80	0.0	-0.5814	0.4020	0.0688	0.0667	0.0190	0.3866	-0.6915	
2	-2.65	-0.04	-0.5526	0.3347	-0.0394	0.0442	0.0240	0.3819	-0.6057	
3	-2.02	-0.01	-0.4157	0.2391	0.0548	0.0073	0.0220	0.3824	-0.5751	
4	-1.39	0.0	-0.2836	0.1490	0.1992	0.0861	0.0210	0.3837	-0.5255	
5	-0.85	0.0	-0.1531	0.1303	0.1244	0.0188	0.0310	0.3922	-0.8513	
6	-0.28	0.02	-0.0350	0.1436	0.1778	0.0701	0.0240	0.4024	-3.6820	
7	0.25	-0.04	0.0406	0.1201	0.1418	0.0075	0.0250	0.4010	2.9596	
8	0.79	0.0	0.1425	0.1235	0.1201	-0.0261	0.0230	0.4111	0.8667	
9	1.32	-0.02	0.2583	0.1054	0.1188	-0.0493	0.0200	0.4092	0.4080	
10	1.86	-0.05	0.3868	0.0313	0.2080	-0.1262	0.0260	0.4056	0.0810	
11	2.33	-0.03	0.5018	-0.0806	0.1520	0.0532	0.0250	0.3996	-0.1607	
12	2.82	0.01	0.6376	-0.1678	0.1334	0.0052	0.0310	0.4037	-0.2631	
13	3.31	-0.05	0.7492	-0.2620	0.1242	-0.0219	0.0320	0.4075	-0.3497	
14	3.78	-0.03	0.8214	-0.3261	0.0573	0.0318	0.0230	0.4018	-0.3970	
15	4.26	0.05	0.9510	-0.4525	0.2187	-0.1872	0.0290	0.4059	-0.4758	
16	4.72	-0.09	1.1397	-0.6248	-0.0077	0.0558	0.0240	0.3974	-0.5482	
17	5.19	-0.01	1.2220	-0.7340	0.2287	-0.0552	0.0250	0.4019	-0.6006	
18	5.64	-0.05	1.3748	-0.8664	0.1274	-0.1073	0.0210	0.4051	-0.6305	
19	6.11	0.04	1.5518	-1.0877	0.1778	-0.1109	0.0210	0.4206	-0.7009	
20	6.56	0.07	1.6197	-1.1687	0.0730	0.0678	0.0280	0.4078	-0.7216	
21	7.03	-0.03	1.7328	-1.3550	0.0076	0.0853	0.0300	0.4172	-0.7820	
22	7.48	-0.09	1.9137	-1.5124	0.0455	-0.1407	0.0290	0.4128	-0.7903	
23	7.93	-0.02	2.0457	-1.7222	0.1177	0.0472	0.0290	0.4165	-0.8418	
24	8.36	0.01	2.2147	-1.9407	0.1838	-0.0993	0.0190	0.4220	-0.8763	
25	8.81	0.01	2.3148	-2.0729	0.0619	-0.0137	0.0290	0.4173	-0.8955	
26	9.19	0.0	2.4071	-2.1991	0.1152	-0.0083	0.0170	0.4100	-0.9136	
27	9.60	-0.07	2.5625	-2.4336	0.0807	-0.0800	0.0220	0.4124	-0.9497	
28	10.05	-0.03	2.7168	-2.6007	0.1153	-0.0204	0.0170	0.4078	-0.9573	
29	10.42	-0.11	2.8410	-2.8056	0.0667	-0.1234	0.0240	0.4064	-0.9875	
30	10.86	0.0	2.9174	-2.8935	0.0013	-0.0478	0.0200	0.4048	-0.9918	
31	11.24	-0.02	3.0657	-2.9881	-0.0031	0.0553	0.0250	0.4017	-0.9747	
32	11.65	-0.01	3.2057	-3.2261	0.0482	-0.1685	0.0210	0.3953	-1.0064	
33	12.01	0.02	3.3685	-3.4380	0.2122	-0.0601	0.0210	0.3889	-1.0206	
34	12.38	-0.05	3.4243	-3.5301	0.1139	0.0435	0.0280	0.3877	-1.0309	
35	12.74	-0.07	3.5317	-3.6636	0.0389	0.0195	0.0310	0.3803	-1.0373	
36	13.11	-0.07	3.7876	-3.9338	-0.0966	0.0042	0.0320	0.3855	-1.0386	
37	13.46	0.02	3.8333	-4.0358	0.2518	-0.1195	0.0250	0.3809	-1.0528	
38	13.83	-0.02	3.9982	-4.1956	0.0660	-0.0444	0.0300	0.3803	-1.0494	
39	14.20	0.0	4.0686	-4.3062	0.0894	0.0048	0.0290	0.3728	-1.0584	
40	14.54	-0.02	4.2295	-4.5205	0.0208	-0.0081	0.0260	0.3788	-1.0688	
41	14.92	-0.05	4.3288	-4.6585	-0.0230	0.0172	0.0320	0.3732	-1.0762	
42	15.25	-0.06	4.4616	-4.7795	0.0911	0.0465	0.0320	0.3753	-1.0712	
43	15.63	-0.08	4.5962	-5.0079	0.0708	0.0549	0.0260	0.3714	-1.0896	
44	15.96	-0.08	4.7223	-5.0824	0.0728	0.0141	0.0250	0.3665	-1.0763	
45	16.31	-0.06	4.8726	-5.2638	0.0276	-0.0056	0.0260	0.3625	-1.0803	
46	16.64	-0.04	5.0178	-5.5052	0.0416	-0.0092	0.0260	0.3540	-1.0971	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	CEL3	DEL4	TRANSITION	
6			54	1.10	1.7	0.0	82W2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	KCP				
47	16.98	-0.02	5.0855	-5.5939	0.0745	0.0457	0.0170	0.3500	-1.1000				
48	17.31	-0.03	5.2263	-5.8460	-0.0052	0.1503	0.0150	0.3480	-1.1186				
49	17.63	-0.09	5.3841	-5.9709	-0.0391	0.1667	0.0140	0.3407	-1.1090				
50	17.97	-0.06	5.4940	-6.1568	0.0295	0.1617	0.0070	0.3336	-1.1206				
51	18.31	-0.06	5.6291	-6.2389	0.0191	0.1002	0.0010	0.3369	-1.1083				
52	18.64	-0.08	5.7286	-6.3472	-0.0742	0.1409	0.0	0.3293	-1.1080				
53	18.97	-0.07	5.8376	-6.4789	-0.0228	0.0829	0.0040	0.3223	-1.1099				
54	19.30	-0.06	5.9894	-6.6494	0.0163	0.1632	0.0040	0.3064	-1.1102				
55	19.63	-0.08	6.0973	-6.7475	-0.0534	0.1207	-0.0070	0.2986	-1.1066				
56	19.95	-0.06	6.1712	-6.8449	0.0026	0.1633	-0.0010	0.2914	-1.1092				
57	20.32	-0.08	6.3403	-6.9746	-0.0126	0.2296	-0.0080	0.2798	-1.1001				
58	20.64	-0.06	6.4007	-7.0602	0.0187	0.1878	-0.0090	0.2755	-1.1030				
59	21.00	-0.07	6.5709	-7.1306	-0.0587	0.2311	-0.0180	0.2726	-1.0852				
60	21.34	-0.08	6.6658	-7.2024	-0.1069	0.2226	-0.0210	0.2714	-1.0805				
61	21.69	-0.09	6.8051	-7.3234	-0.0847	0.1676	-0.0260	0.2727	-1.0762				
62	21.99	-0.08	6.8717	-7.3127	-0.0187	0.2821	-0.0240	0.2682	-1.0642				
63	22.31	-0.08	7.0730	-7.4775	0.0162	0.0553	-0.0310	0.2722	-1.0572				
64	22.66	-0.06	7.2116	-7.4565	0.0730	0.2928	-0.0290	0.2770	-1.0340				
65	22.94	-0.08	7.2958	-7.4455	0.0205	0.1623	-0.0350	0.2683	-1.0205				
66	23.30	-0.08	7.4378	-7.5233	0.0433	0.1244	-0.0550	0.2727	-0.9981				
67	23.61	-0.09	7.5591	-7.4722	0.0221	0.0561	-0.0640	0.2617	-0.9885				
68	23.94	-0.08	7.6484	-7.4162	0.0353	0.1516	-0.0630	0.2596	-0.9696				
69	24.26	-0.09	7.7545	-7.4527	-0.0111	0.1805	-0.0560	0.2558	-0.9611				
70	24.58	-0.10	7.8281	-7.5767	-0.0424	0.1013	-0.0560	0.2508	-0.9679				
71	24.94	-0.09	8.0045	-7.5027	-0.0052	0.3062	-0.0700	0.2456	-0.9373				
72	25.19	-0.07	8.0395	-7.5039	-0.0222	0.3910	-0.0670	0.2420	-0.9334				
73	25.57	-0.08	8.2580	-7.6187	0.0569	0.2023	-0.0800	0.2383	-0.9226				
74	25.84	-0.11	8.4012	-7.5852	-0.1457	0.3959	-0.0650	0.2507	-0.9029				
75	26.18	-0.09	8.5491	-7.6313	0.0598	0.3052	-0.1010	0.2392	-0.8926				
76	26.49	-0.09	8.7453	-7.6820	-0.1724	0.7763	-0.0750	0.2426	-0.8784				
77	26.78	-0.10	8.8473	-7.6609	-0.1995	0.7762	-0.0860	0.2396	-0.8659				
78	27.09	-0.09	9.0052	-7.7309	-0.2289	0.8923	-0.0740	0.2319	-0.8585				
79	27.42	-0.10	9.0806	-7.7805	-0.0998	0.5696	-0.0810	0.2286	-0.8568				
80	27.74	-0.11	9.2815	-7.8557	-0.2548	0.7106	-0.0830	0.2128	-0.8464				
81	28.03	-0.11	9.3570	-7.8534	-0.4210	1.1154	-0.0820	0.2026	-0.8393				
82	28.35	-0.07	9.5434	-7.8614	-0.1573	1.0821	-0.1250	0.1958	-0.8238				
83	28.64	-0.10	9.6286	-7.9238	-0.1622	0.6390	-0.1280	0.1856	-0.8229				
84	28.96	-0.11	9.8060	-7.9952	-0.1762	0.5636	-0.1400	0.1773	-0.8153				
85	29.27	-0.09	9.9215	-8.1259	-0.1246	0.6674	-0.1550	0.1620	-0.8190				
86	29.59	-0.11	10.0666	-8.1320	-0.2636	0.7519	-0.1530	0.1560	-0.8078				
87	29.91	-0.10	10.1925	-8.1423	-0.0418	0.2675	-0.1180	0.1409	-0.7988				
88	30.23	-0.08	10.3078	-8.1877	-0.1007	0.7369	-0.1320	0.1463	-0.7943				

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	54	1.10	1.7	0.0	B2MZF12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.80	0.0	-0.2535	0.0010	0.0468	-0.0041	-0.1847	-0.0554	0.0051	-0.0399	-0.0920	0.7195
2	-2.65	-0.04	-0.2411	0.0009	0.0455	-0.0037	-0.1886	-0.0474	0.0049	-0.0355	-0.1034	0.7488
3	-2.02	-0.01	-0.2357	0.0008	0.0450	-0.0036	-0.1908	-0.0320	0.0033	-0.0291	-0.1031	0.9082
4	-1.39	0.0	-0.2454	0.0009	0.0460	-0.0039	-0.1876	-0.0195	0.0020	-0.0215	-0.1051	1.1024
5	-0.85	0.0	-0.2537	0.0010	0.0470	-0.0041	-0.1851	-0.0054	0.0004	-0.0149	-0.0741	2.7591
6	-0.28	0.02	-0.2452	0.0010	0.0459	-0.0041	-0.1872	-0.0009	-0.0004	-0.0119	0.4444	13.2221
7	0.25	-0.04	-0.2409	0.0009	0.0454	-0.0039	-0.1886	0.0063	-0.0037	-0.0096	-0.1190	-1.5239
8	0.74	0.0	-0.2450	0.0010	0.0459	-0.0041	-0.1872	0.0160	-0.0012	-0.0071	-0.0750	-0.4418
9	1.32	-0.02	-0.2462	0.0010	0.0461	-0.0043	-0.1871	0.0278	-0.0023	-0.0019	-0.0845	-0.0697
10	1.89	-0.03	-0.2449	0.0011	0.0459	-0.0045	-0.1874	0.0331	-0.0029	0.0035	-0.0876	0.1066
11	2.33	-0.03	-0.2448	0.0010	0.0458	-0.0041	-0.1872	0.0507	-0.0050	0.0124	-0.0986	0.2445
12	2.82	0.01	-0.3004	0.0010	0.0613	-0.0035	-0.2039	0.0673	-0.0065	0.0200	-0.0966	0.2976
13	3.31	-0.05	-0.2476	0.0011	0.0462	-0.0044	-0.1866	0.0791	-0.0075	0.0253	-0.0948	0.3193
14	3.78	-0.03	-0.2391	0.0009	0.0452	-0.0040	-0.1892	0.0922	-0.0082	0.0302	-0.0895	0.3278
15	4.26	0.05	-0.2820	0.0012	0.0547	-0.0044	-0.1939	0.1107	-0.0089	0.0352	-0.0804	0.3179
16	4.72	-0.09	-0.2493	0.0011	0.0464	-0.0044	-0.1862	0.1377	-0.0108	0.0483	-0.0784	0.3506
17	5.19	-0.01	-0.2478	0.0010	0.0462	-0.0042	-0.1866	0.1482	-0.0114	0.0538	-0.0772	0.3629
18	5.64	-0.05	-0.2534	0.0011	0.0469	-0.0045	-0.1849	0.1734	-0.0123	0.0629	-0.0712	0.3626
19	6.11	0.04	-0.2589	0.0012	0.0475	-0.0048	-0.1836	0.1962	-0.0129	0.0706	-0.0657	0.3597
20	6.56	0.07	-0.2476	0.0010	0.0462	-0.0042	-0.1866	0.2050	-0.0139	0.0773	-0.0680	0.3771
21	7.03	-0.03	-0.2533	0.0011	0.0468	-0.0043	-0.1847	0.2253	-0.0147	0.0864	-0.0652	0.3834
22	7.48	-0.09	-0.2616	0.0012	0.0478	-0.0048	-0.1828	0.2506	-0.0155	0.0950	-0.0620	0.3791
23	7.93	-0.02	-0.2548	0.0011	0.0470	-0.0045	-0.1844	0.2722	-0.0160	0.1030	-0.0588	0.3784
24	8.36	0.01	-0.3212	0.0013	0.0636	-0.0042	-0.1981	0.2954	-0.0173	0.1146	-0.0587	0.3880
25	8.81	0.01	-0.2624	0.0013	0.0475	-0.0049	-0.1822	0.3195	-0.0172	0.1225	-0.0538	0.3833
26	9.19	0.0	-0.2585	0.0012	0.0474	-0.0046	-0.1832	0.3272	-0.0178	0.1275	-0.0544	0.3897
27	9.60	-0.07	-0.2530	0.0011	0.0468	-0.0045	-0.1850	0.3563	-0.0186	0.1370	-0.0522	0.3846
28	10.05	-0.03	-0.2585	0.0012	0.0474	-0.0046	-0.1832	0.3775	-0.0192	0.1466	-0.0508	0.3883
29	10.42	-0.11	-0.2627	0.0013	0.0479	-0.0049	-0.1822	0.4055	-0.0198	0.1550	-0.0489	0.3823
30	10.86	0.0	-0.2529	0.0011	0.0467	-0.0043	-0.1848	0.4277	-0.0200	0.1596	-0.0467	0.3732
31	11.24	-0.02	-0.2461	0.0010	0.0460	-0.0043	-0.1869	0.4370	-0.0206	0.1648	-0.0471	0.3771
32	11.65	-0.01	-0.2610	0.0013	0.0476	-0.0050	-0.1825	0.4547	-0.0208	0.1708	-0.0457	0.3757
33	12.01	0.02	-0.2583	0.0012	0.0473	-0.0046	-0.1832	0.4817	-0.0204	0.1781	-0.0424	0.3697
34	12.38	-0.05	-0.2449	0.0010	0.0459	-0.0041	-0.1874	0.4957	-0.0205	0.1826	-0.0414	0.3683
35	12.74	-0.07	-0.2479	0.0011	0.0463	-0.0044	-0.1868	0.5093	-0.0202	0.1866	-0.0397	0.3664
36	13.11	-0.07	-0.2409	0.0010	0.0454	-0.0042	-0.1866	0.5410	-0.0199	0.1959	-0.0368	0.3620
37	13.46	0.02	-0.2450	0.0010	0.0460	-0.0041	-0.1876	0.5418	-0.0196	0.1971	-0.0363	0.3638
38	13.83	-0.02	-0.2394	0.0009	0.0452	-0.0040	-0.1889	0.5636	-0.0193	0.2033	-0.0342	0.3607
39	14.20	0.0	-0.2311	0.0008	0.0443	-0.0035	-0.1917	0.5806	-0.0194	0.2081	-0.0335	0.3584
40	14.54	-0.02	-0.2173	0.0006	0.0428	-0.0028	-0.1969	0.5973	-0.0189	0.2144	-0.0316	0.3590
41	14.92	-0.05	-0.2133	0.0006	0.0423	-0.0028	-0.1984	0.6120	-0.0187	0.2183	-0.0306	0.3567
42	15.25	-0.06	-0.2186	0.0007	0.0429	-0.0032	-0.1961	0.6213	-0.0184	0.2206	-0.0296	0.3551
43	15.63	-0.08	-0.2034	0.0004	0.0412	-0.0020	-0.2027	0.6456	-0.0171	0.2272	-0.0266	0.3520
44	15.96	-0.08	-0.1938	0.0003	0.0401	-0.0015	-0.2070	0.6588	-0.0170	0.2323	-0.0259	0.3526
45	16.31	-0.06	-0.1939	0.0003	0.0402	-0.0015	-0.2073	0.6824	-0.0167	0.2366	-0.0245	0.3470
46	16.64	-0.04	-0.1718	-0.0001	0.0376	0.0006	-0.2192	0.7117	-0.0150	0.2441	-0.0211	0.3430

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	AX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION
6			54	1-10	1.7	0.0	B2M2F-12	16.750	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	16.98	-0.02	-0.1786	0.0	0.0384	0.0	-0.2149	0.7224	-0.0144	0.2483	-0.0200	0.3437
48	17.31	-0.03	-0.1567	-0.0002	0.0360	0.0016	-0.2296	0.7569	-0.0134	0.2551	-0.0177	0.3370
49	17.63	-0.09	-0.1389	-0.0005	0.0340	0.0040	-0.2449	0.7801	-0.0127	0.2616	-0.0163	0.3354
50	17.97	-0.06	-0.1348	-0.0006	0.0335	0.0045	-0.2484	0.7951	-0.0115	0.2633	-0.0145	0.3312
51	18.31	-0.06	-0.1348	-0.0006	0.0335	0.0045	-0.2484	0.8123	-0.0117	0.2682	-0.0145	0.3301
52	18.64	-0.08	-0.1428	-0.0005	0.0344	0.0035	-0.2410	0.8247	-0.0110	0.2716	-0.0134	0.3293
53	18.97	-0.07	-0.1155	-0.0009	0.0313	0.0078	-0.2711	0.8419	-0.0107	0.2756	-0.0127	0.3274
54	19.30	-0.06	-0.0963	-0.0012	0.0292	0.0125	-0.3033	0.8578	-0.0100	0.2800	-0.0117	0.3265
55	19.63	-0.08	-0.0936	-0.0012	0.0289	0.0128	-0.3089	0.8690	-0.0104	0.2826	-0.0120	0.3252
56	19.95	-0.06	-0.1074	-0.0009	0.0304	0.0088	-0.2832	0.8795	-0.0104	0.2868	-0.0119	0.3261
57	20.32	-0.08	-0.0802	-0.0014	0.0275	0.0175	-0.3426	0.9000	-0.0107	0.2909	-0.0119	0.3232
58	20.64	-0.06	-0.0816	-0.0013	0.0276	0.0165	-0.3384	0.9068	-0.0110	0.2938	-0.0122	0.3240
59	21.00	-0.07	-0.0473	-0.0019	0.0237	0.0402	-0.5019	0.9305	-0.0110	0.3005	-0.0118	0.3229
60	21.34	-0.08	-0.0665	-0.0016	0.0259	0.0248	-0.3901	0.9501	-0.0114	0.3068	-0.0120	0.3229
61	21.69	-0.09	-0.0487	-0.0018	0.0239	0.0380	-0.4902	0.9568	-0.0109	0.3067	-0.0114	0.3206
62	21.99	-0.08	-0.0487	-0.0018	0.0239	0.0380	-0.4902	0.9663	-0.0112	0.3094	-0.0116	0.3202
63	22.31	-0.08	-0.0389	-0.0020	0.0227	0.0527	-0.5845	0.9805	-0.0112	0.3139	-0.0115	0.3202
64	22.66	-0.06	-0.0197	-0.0023	0.0205	0.1193	-1.0424	0.9803	-0.0132	0.3143	-0.0135	0.3206
65	22.94	-0.08	0.0022	-0.0026	0.0180	-1.2043	8.1968	0.9856	-0.0130	0.3141	-0.0132	0.3187
66	23.30	-0.08	0.0159	-0.0030	0.0165	-0.1886	1.0376	0.9908	-0.0130	0.3153	-0.0132	0.3182
67	23.61	-0.09	0.0241	-0.0031	0.0156	-0.1280	0.6486	0.9982	-0.0135	0.3175	-0.0136	0.3181
68	23.94	-0.08	0.0351	-0.0033	0.0144	-0.0954	0.4101	0.9931	-0.0149	0.3174	-0.0150	0.3196
69	24.26	-0.09	0.0134	-0.0031	0.0169	-0.2313	1.2586	1.0043	-0.0150	0.3189	-0.0150	0.3175
70	24.58	-0.10	0.0065	-0.0029	0.0177	-0.4538	2.7178	1.0088	-0.0154	0.3222	-0.0153	0.3193
71	24.94	-0.09	0.0272	-0.0033	0.0154	-0.1231	0.5648	1.0180	-0.0168	0.3237	-0.0165	0.3180
72	25.19	-0.07	0.0204	-0.0032	0.0161	-0.1593	0.7491	1.0244	-0.0164	0.3251	-0.0161	0.3173
73	25.57	-0.08	0.0301	-0.0035	0.0150	-0.1163	0.4993	1.0306	-0.0177	0.3276	-0.0172	0.3179
74	25.84	-0.11	0.0303	-0.0036	0.0150	-0.1204	0.4949	1.0395	-0.0177	0.3286	-0.0171	0.3161
75	26.18	-0.09	0.0398	-0.0038	0.0140	-0.0955	0.3508	1.0560	-0.0171	0.3343	-0.0162	0.3166
76	26.49	-0.09	0.0071	-0.0035	0.0177	-0.4999	2.4881	1.0601	-0.0169	0.3330	-0.0159	0.3142
77	26.78	-0.10	0.0770	-0.0048	0.0098	-0.0623	0.1267	1.0659	-0.0171	0.3345	-0.0160	0.3138
78	27.09	-0.09	0.0442	-0.0042	0.0134	-0.0961	0.3038	1.0748	-0.0177	0.3358	-0.0165	0.3125
79	27.42	-0.10	0.0302	-0.0038	0.0151	-0.1258	0.4988	1.0913	-0.0178	0.3409	-0.0164	0.3124
80	27.74	-0.11	0.0165	-0.0035	0.0166	-0.2151	1.0059	1.0999	-0.0194	0.3432	-0.0177	0.3120
81	28.03	-0.11	0.0229	-0.0047	0.0249	-0.2074	1.0887	1.1000	-0.0188	0.3434	-0.0171	0.3122
82	28.35	-0.07	0.1459	-0.0065	0.0066	-0.0445	0.0453	1.1072	-0.0177	0.3459	-0.0160	0.3124
83	28.64	-0.10	0.1731	-0.0063	-0.0010	-0.0364	-0.0059	1.1241	-0.0180	0.3491	-0.0160	0.3105
84	28.96	-0.11	0.1306	-0.0054	0.0038	-0.0413	0.0292	1.1563	-0.0178	0.3581	-0.0154	0.3097
85	29.27	-0.09	0.1640	-0.0060	0.0000	-0.0366	0.0003	1.1651	-0.0175	0.3602	-0.0150	0.3092
86	29.59	-0.11	0.2033	-0.0077	-0.0111	-0.0292	-0.0420	1.1726	-0.0171	0.3617	-0.0146	0.3085
87	29.91	-0.10	0.0811	-0.0044	0.0094	-0.0542	0.1162	1.1835	-0.0174	0.3664	-0.0147	0.3096
88	30.23	-0.08	0.1254	-0.0053	0.0044	-0.0423	0.0350	1.1899	-0.0179	0.3674	-0.0151	0.3088

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		54	1.10	1.7	0-0	B2W2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.80	0.0	0.0520	0.0014	-0.0066	0.0279	-0.1264	-0.0513	0.0064	-0.0338	-0.1247	0.6587
2	-2.65	-0.04	0.0535	0.0018	-0.0093	0.0346	-0.1733	-0.0368	0.0062	-0.0302	-0.1684	0.8196
3	-2.02	-0.01	0.0500	0.0018	-0.0088	0.0370	-0.1768	-0.0149	0.0041	-0.0236	-0.2751	1.5815
4	-1.39	0.0	0.0499	0.0014	-0.0088	0.0291	-0.1758	0.0033	0.0028	-0.0181	0.8635	-5.4850
5	-0.85	0.0	0.0530	0.0014	-0.0085	0.0274	-0.1611	0.0261	0.0009	-0.0114	0.0364	-0.4369
6	-0.28	0.02	0.0518	0.0012	-0.0065	0.0232	-0.1262	0.0326	-0.0003	-0.0089	-0.0092	-0.2741
7	0.25	-0.04	0.0514	0.0011	-0.0059	0.0214	-0.1143	0.0435	-0.0012	-0.0060	-0.0276	-0.1380
8	0.79	0.0	0.0513	0.0009	-0.0058	0.0175	-0.1132	0.0531	-0.0019	-0.0041	-0.0367	-0.0773
9	1.32	-0.02	0.0565	0.0002	-0.0040	0.0044	-0.0703	0.0714	-0.0039	0.0020	-0.0553	0.0279
10	1.86	-0.05	0.0628	0.0001	-0.0040	0.0016	-0.0633	0.0894	-0.0049	0.0075	-0.0548	0.0838
11	2.33	-0.03	0.0564	0.0001	-0.0035	0.0027	-0.0693	0.1121	-0.0066	0.0146	-0.0589	0.1298
12	2.82	0.01	0.0525	-0.0002	-0.0028	-0.0038	-0.0535	0.1321	-0.0082	0.0216	-0.0621	0.1636
13	3.31	-0.05	0.0650	-0.0005	-0.0024	-0.0085	-0.0376	0.1517	-0.0094	0.0274	-0.0620	0.1809
14	3.78	-0.03	0.0547	-0.0005	-0.0012	-0.0091	-0.0214	0.1680	-0.0101	0.0324	-0.0601	0.1927
15	4.26	0.05	0.0627	-0.0014	0.0017	-0.0223	0.0270	0.1861	-0.0111	0.0395	-0.0596	0.2123
16	4.72	-0.09	0.0639	-0.0008	-0.0003	-0.0133	-0.0048	0.2136	-0.0121	0.0483	-0.0569	0.2260
17	5.19	-0.01	0.0660	-0.0015	0.0013	-0.0235	0.0196	0.2349	-0.0132	0.0564	-0.0562	0.2400
18	5.64	-0.05	0.0622	-0.0017	0.0023	-0.0281	0.0374	0.2583	-0.0139	0.0643	-0.0540	0.2488
19	6.11	0.04	0.0637	-0.0020	0.0054	-0.0314	0.0852	0.2875	-0.0146	0.0722	-0.0508	0.2512
20	6.56	0.07	0.0645	-0.0017	0.0040	-0.0271	0.0619	0.3022	-0.0154	0.0789	-0.0511	0.2611
21	7.03	-0.03	0.0678	-0.0020	0.0037	-0.0295	0.0545	0.3247	-0.0164	0.0877	-0.0499	0.2659
22	7.48	-0.09	0.0623	-0.0021	0.0081	-0.0337	0.1494	0.3488	-0.0169	0.0960	-0.0484	0.2753
23	7.93	-0.02	0.0664	-0.0021	0.0063	-0.0316	0.0953	0.3742	-0.0175	0.1037	-0.0467	0.2771
24	8.36	0.01	0.0774	-0.0025	0.0095	-0.0329	0.1226	0.4000	-0.0181	0.1151	-0.0452	0.2877
25	8.81	0.01	0.0676	-0.0023	0.0099	-0.0348	0.1468	0.4271	-0.0181	0.1218	-0.0425	0.2852
26	9.19	0.0	0.0720	-0.0030	0.0132	-0.0417	0.1832	0.4397	-0.0185	0.1278	-0.0421	0.2907
27	9.60	-0.07	0.0737	-0.0023	0.0105	-0.0319	0.1419	0.4678	-0.0188	0.1381	-0.0402	0.2952
28	10.05	-0.03	0.0790	-0.0025	0.0124	-0.0316	0.1573	0.4972	-0.0189	0.1456	-0.0381	0.2928
29	10.42	-0.11	0.0836	-0.0028	0.0157	-0.0341	0.1873	0.5281	-0.0194	0.1548	-0.0368	0.2931
30	10.86	0.0	0.0724	-0.0019	0.0131	-0.0269	0.1813	0.5376	-0.0191	0.1592	-0.0356	0.2962
31	11.24	-0.02	0.0794	-0.0014	0.0123	-0.0183	0.1544	0.5549	-0.0193	0.1658	-0.0348	0.2988
32	11.65	-0.01	0.0907	-0.0019	0.0147	-0.0209	0.1623	0.5741	-0.0194	0.1728	-0.0338	0.3010
33	12.01	0.02	0.0945	-0.0024	0.0194	-0.0259	0.2052	0.6076	-0.0193	0.1827	-0.0318	0.3006
34	12.38	-0.05	0.0728	-0.0011	0.0131	-0.0151	0.1794	0.6093	-0.0193	0.1848	-0.0317	0.3033
35	12.74	-0.07	0.0910	-0.0014	0.0148	-0.0159	0.1629	0.6248	-0.0190	0.1917	-0.0302	0.3043
36	13.11	-0.07	0.0884	-0.0013	0.0138	-0.0153	0.1556	0.6580	-0.0189	0.2024	-0.0287	0.3075
37	13.46	0.02	0.0897	-0.0012	0.0174	-0.0139	0.1939	0.6700	-0.0183	0.2044	-0.0274	0.3052
38	13.83	-0.02	0.0918	-0.0010	0.0197	-0.0114	0.2145	0.6953	-0.0180	0.2144	-0.0260	0.3083
39	14.20	0.0	0.0898	-0.0009	0.0173	-0.0106	0.1929	0.7073	-0.0176	0.2173	-0.0249	0.3072
40	14.54	-0.02	0.0898	-0.0009	0.0173	-0.0106	0.1929	0.7293	-0.0170	0.2243	-0.0234	0.3076
41	14.92	-0.05	0.0997	-0.0006	0.0165	-0.0065	0.1697	0.7459	-0.0169	0.2309	-0.0227	0.3096
42	15.25	-0.06	0.1033	-0.0009	0.0158	-0.0092	0.1532	0.7588	-0.0166	0.2344	-0.0219	0.3090
43	15.63	-0.08	0.1078	-0.0005	0.0197	-0.0051	0.1829	0.7899	-0.0160	0.2430	-0.0202	0.3076
44	15.96	-0.08	0.1068	-0.0006	0.0216	-0.0056	0.2021	0.8008	-0.0157	0.2469	-0.0197	0.3084
45	16.31	-0.06	0.1089	-0.0005	0.0176	-0.0050	0.1615	0.8210	-0.0153	0.2516	-0.0187	0.3064
46	16.64	-0.04	0.1035	-0.0003	0.0220	-0.0034	0.2124	0.8415	-0.0150	0.2608	-0.0179	0.3099

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI CONF		L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 54 1.10 1.7			0.0 B2W2F12		16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF-3	CH3	CH3	XC PF3	YC PF3	CNF4	CH4	C84	XCPF4	YCPF4
47	16.98	-0.02	0.1116	-0.0004	0.0186	-0.0040	0.1665	0.8519	-0.0149	0.2626	-0.0175	0.3082
48	17.31	-0.03	0.1068	-0.0003	0.0217	-0.0033	0.2031	0.8831	-0.0145	0.2710	-0.0165	0.3068
49	17.63	-0.09	0.1000	0.0003	0.0167	0.0035	0.1672	0.9018	-0.0141	0.2767	-0.0157	0.3068
50	17.97	-0.06	0.1056	-0.0000	0.0243	-0.0005	0.2300	0.9174	-0.0132	0.2811	-0.0144	0.3064
51	18.31	-0.06	0.1137	-0.0002	0.0271	-0.0018	0.2382	0.9342	-0.0137	0.2855	-0.0147	0.3056
52	18.64	-0.08	0.1131	-0.0005	0.0215	-0.0044	0.1900	0.9488	-0.0131	0.2870	-0.0139	0.3024
53	18.97	-0.07	0.1035	0.0000	0.0220	0.0005	0.2124	0.9659	-0.0127	0.2945	-0.0132	0.3049
54	19.30	-0.06	0.1129	-0.0000	0.0221	-0.0004	0.1959	0.9872	-0.0126	0.3009	-0.0128	0.3048
55	19.63	-0.08	0.1172	0.0005	0.0266	0.0047	0.2274	1.0015	-0.0130	0.3036	-0.0130	0.3032
56	19.95	-0.06	0.1119	0.0004	0.0248	0.0040	0.2215	1.0138	-0.0128	0.3064	-0.0127	0.3022
57	20.32	-0.08	0.1173	0.0	0.0268	0.0	0.2284	1.0275	-0.0133	0.3122	-0.0130	0.3038
58	20.64	-0.06	0.1280	0.0008	0.0255	0.0066	0.1996	1.0410	-0.0140	0.3143	-0.0135	0.3019
59	21.00	-0.07	0.1200	0.0012	0.0290	0.0104	0.2415	1.0596	-0.0135	0.3208	-0.0128	0.3027
60	21.34	-0.08	0.1155	0.0009	0.0251	0.0078	0.2172	1.0742	-0.0139	0.3227	-0.0130	0.3005
61	21.69	-0.09	0.1335	0.0010	0.0337	0.0075	0.2523	1.0925	-0.0138	0.3289	-0.0127	0.3011
62	21.99	-0.08	0.1180	0.0017	0.0266	0.0148	0.2256	1.0915	-0.0137	0.3294	-0.0126	0.3018
63	22.31	-0.08	0.1363	0.0019	0.0345	0.0143	0.2532	1.1202	-0.0127	0.3362	-0.0114	0.3001
64	22.66	-0.06	0.1257	0.0021	0.0300	0.0171	0.2385	1.1302	-0.0130	0.3385	-0.0115	0.2995
65	22.94	-0.08	0.1359	0.0018	0.0344	0.0136	0.2530	1.1293	-0.0126	0.3390	-0.0112	0.3002
66	23.30	-0.08	0.1354	0.0013	0.0343	0.0096	0.2535	1.1351	-0.0131	0.3371	-0.0115	0.2970
67	23.61	-0.09	0.1447	0.0028	0.0358	0.0193	0.2475	1.1408	-0.0125	0.3396	-0.0110	0.2977
68	23.94	-0.08	0.1488	0.0025	0.0342	0.0168	0.2297	1.1477	-0.0132	0.3403	-0.0115	0.2965
69	24.26	-0.09	0.1464	0.0022	0.0333	0.0157	0.2273	1.1585	-0.0132	0.3416	-0.0114	0.2949
70	24.58	-0.10	0.1530	0.0022	0.0332	0.0147	0.2169	1.1614	-0.0130	0.3440	-0.0112	0.2962
71	24.94	-0.09	0.1449	0.0019	0.0305	0.0135	0.2104	1.1667	-0.0130	0.3460	-0.0112	0.2961
72	25.19	-0.07	0.1351	0.0016	0.0310	0.0122	0.2296	1.1702	-0.0129	0.3465	-0.0111	0.2961
73	25.57	-0.08	0.1534	0.0022	0.0333	0.0147	0.2172	1.1886	-0.0132	0.3517	-0.0111	0.2959
74	25.84	-0.11	0.1585	0.0015	0.0353	0.0095	0.2228	1.2108	-0.0131	0.3591	-0.0109	0.2966
75	26.18	-0.09	0.1447	0.0014	0.0304	0.0100	0.2102	1.2191	-0.0131	0.3603	-0.0107	0.2956
76	26.49	-0.09	0.1461	0.0011	0.0334	0.0075	0.2285	1.2412	-0.0129	0.3659	-0.0104	0.2948
77	26.78	-0.10	0.1369	0.0027	0.0267	0.0201	0.1952	1.2520	-0.0128	0.3697	-0.0102	0.2953
78	27.09	-0.09	0.1465	0.0014	0.0315	0.0099	0.2179	1.2615	-0.0130	0.3717	-0.0103	0.2947
79	27.42	-0.10	0.1500	0.0016	0.0378	0.0107	0.2519	1.2679	-0.0130	0.3725	-0.0102	0.2938
80	27.74	-0.11	0.1459	0.0016	0.0333	0.0113	0.2283	1.2756	-0.0128	0.3727	-0.0101	0.2922
81	28.03	-0.11	0.1433	0.0018	0.0323	0.0129	0.2257	1.2826	-0.0130	0.3759	-0.0101	0.2931
82	28.35	-0.07	0.1466	0.0016	0.0319	0.0113	0.2179	1.2865	-0.0142	0.3772	-0.0110	0.2932
83	28.64	-0.10	0.1607	0.0023	0.0366	0.0143	0.2280	1.2973	-0.0139	0.3797	-0.0107	0.2927
84	28.96	-0.11	0.1509	0.0024	0.0379	0.0162	0.2510	1.3077	-0.0138	0.3835	-0.0105	0.2933
85	29.27	-0.09	0.1677	0.0036	0.0380	0.0215	0.2265	1.3213	-0.0133	0.3866	-0.0101	0.2926
86	29.59	-0.11	0.1562	0.0028	0.0348	0.0182	0.2231	1.3256	-0.0134	0.3893	-0.0101	0.2937
87	29.91	-0.10	0.1619	0.0035	0.0367	0.0216	0.2270	1.3402	-0.0112	0.3945	-0.0084	0.2943
88	30.23	-0.08	0.1628	0.0033	0.0347	0.0203	0.2134	1.3433	-0.0109	0.3946	-0.0081	0.2938

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	55	1.05	1.7	0.0	B2W2F12	16.750	0	0	0	0
										FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.82	0.04	-0.5901	0.2532	0.2311	-0.0245	0.0210	0.3504	-0.4291	
2	-2.81	-0.04	-0.5487	0.2383	0.0669	-0.1106	0.0230	0.3574	-0.4343	
3	-2.69	-0.01	-0.5203	0.2165	0.0380	-0.0022	0.0250	0.3576	-0.4161	
4	-2.02	-0.02	-0.3601	0.1271	0.1591	-0.0517	0.0230	0.3683	-0.3531	
5	-1.42	-0.03	-0.2442	0.0689	0.0129	-0.0371	0.0240	0.3662	-0.2821	
6	-0.85	-0.02	-0.1161	0.0025	0.0454	-0.0666	0.0250	0.3634	-0.0219	
7	-0.31	0.0	-0.0138	-0.0187	0.1424	-0.0224	0.0200	0.3730	1.3536	
8	0.22	0.0	0.0604	0.0044	0.1346	-0.0434	0.0230	0.3768	0.0735	
9	0.76	-0.03	0.1865	-0.0281	0.0641	-0.0407	0.0290	0.3820	-0.1507	
10	1.29	0.0	0.3022	-0.0351	0.1175	-0.0975	0.0240	0.3896	-0.1161	
11	1.82	-0.01	0.4368	-0.1446	0.1210	-0.1004	0.0200	0.3823	-0.3311	
12	2.30	-0.04	0.5145	-0.1874	0.0631	-0.1123	0.0340	0.3995	-0.3642	
13	2.81	0.0	0.6676	-0.2887	0.1278	-0.0989	0.0260	0.3981	-0.4325	
14	3.29	-0.02	0.7654	-0.3796	0.0828	-0.1689	0.0300	0.4063	-0.4960	
15	3.76	-0.04	0.9259	-0.4863	0.0767	-0.1084	0.0260	0.3994	-0.5253	
16	4.24	-0.01	0.9833	-0.6007	0.2244	-0.1661	0.0330	0.4061	-0.6109	
17	4.68	-0.02	1.1236	-0.7251	0.1622	-0.0751	0.0290	0.4045	-0.6453	
18	5.15	0.0	1.2806	-0.8620	0.0870	-0.0718	0.0290	0.4015	-0.6731	
19	5.60	-0.02	1.3973	-1.0644	0.0855	-0.1827	0.0300	0.4006	-0.7617	
20	6.07	-0.01	1.5444	-1.1883	0.1051	-0.0771	0.0310	0.4087	-0.7694	
21	6.54	-0.01	1.7177	-1.3979	0.0717	-0.0824	0.0290	0.4011	-0.8138	
22	7.01	-0.02	1.8482	-1.5586	0.0751	-0.1571	0.0290	0.3976	-0.8433	
23	7.45	-0.01	1.9455	-1.6969	0.1176	-0.1378	0.0250	0.3936	-0.8722	
24	7.87	-0.01	2.0921	-1.9111	0.0917	-0.0934	0.0270	0.3918	-0.9135	
25	8.33	-0.01	2.2539	-2.0746	0.1384	-0.1237	0.0280	0.3949	-0.9205	
26	8.75	0.0	2.3824	-2.3215	0.1285	-0.0529	0.0230	0.3889	-0.9744	
27	9.18	-0.01	2.5018	-2.4726	0.1205	-0.1167	0.0290	0.3903	-0.9883	
28	9.57	-0.02	2.6511	-2.6986	0.1252	-0.0323	0.0270	0.3784	-1.0179	
29	10.02	-0.04	2.8036	-2.8562	0.0149	-0.0848	0.0270	0.3600	-1.0188	
30	10.39	-0.10	2.9077	-3.0419	0.0148	-0.1367	0.0260	0.3767	-1.0462	
31	10.83	-0.06	3.0411	-3.2237	0.0580	-0.0602	0.0330	0.3692	-1.0600	
32	11.21	-0.04	3.1856	-3.3890	0.0310	-0.0154	0.0270	0.3634	-1.0638	
33	11.60	-0.01	3.3367	-3.6245	0.1094	-0.0911	0.0280	0.3507	-1.0863	
34	11.98	-0.03	3.4812	-3.8039	0.0872	-0.0331	0.0270	0.3413	-1.0927	
35	12.34	-0.03	3.6125	-3.9447	0.1228	-0.0689	0.0260	0.3365	-1.0919	
36	12.71	-0.03	3.7550	-4.1612	0.0523	-0.0342	0.0300	0.3295	-1.1082	
37	13.06	-0.05	3.8267	-4.2395	-0.0476	-0.0064	0.0370	0.3269	-1.1079	
38	13.43	-0.04	3.9928	-4.4210	0.0266	-0.0102	0.0340	0.3360	-1.1073	
39	13.79	-0.03	4.1298	-4.6228	0.0942	0.0441	0.0300	0.3406	-1.1194	
40	14.17	-0.06	4.2665	-4.7773	0.0043	-0.0320	0.0280	0.3551	-1.1197	
41	14.50	-0.05	4.3661	-4.9077	0.0654	-0.0056	0.0300	0.3548	-1.1240	
42	14.89	-0.07	4.5333	-4.9828	0.0113	-0.0988	0.0290	0.3563	-1.0992	
43	15.25	-0.07	4.6018	-5.0677	-0.0317	-0.0176	0.0290	0.3551	-1.1012	
44	15.59	-0.05	4.7325	-5.2307	0.0641	0.0293	0.0210	0.3454	-1.1053	
45	15.94	-0.07	4.8453	-5.3676	-0.0217	0.0194	0.0230	0.3401	-1.1078	
46	16.28	-0.05	4.9887	-5.5934	-0.0108	0.2141	0.0330	0.3375	-1.1212	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		55	1.05	1.7	0.0	82W2-12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	16.61	-0.06	5.1419	-5.8129	0.0211	0.0864	0.0240	0.3296	-1.1305			
48	16.95	-0.07	5.2560	-5.9756	-0.0201	0.0341	0.0250	0.3158	-1.1369			
49	17.27	-0.06	5.3609	-6.2174	0.0431	0.0846	0.0290	0.3052	-1.1598			
50	17.60	-0.06	5.5470	-6.4249	0.0453	0.1016	0.0140	0.2865	-1.1583			
51	17.92	-0.08	5.6565	-6.5302	-0.0808	0.2011	0.0150	0.2663	-1.1545			
52	18.28	-0.07	5.7992	-6.6361	0.0057	0.1430	0.0200	0.2461	-1.1443			
53	18.59	-0.07	5.8850	-6.8172	-0.0217	0.1274	0.0130	0.2482	-1.1584			
54	18.94	-0.06	6.0827	-7.0030	-0.0247	0.2266	0.0220	0.2422	-1.1513			
55	19.26	-0.06	6.2030	-7.2704	0.0235	0.2041	0.0160	0.2599	-1.1721			
56	19.59	-0.07	6.3451	-7.3723	-0.0195	0.2133	0.0120	0.2796	-1.1619			
57	19.94	-0.06	6.4398	-7.4189	0.0098	0.1833	0.0050	0.2926	-1.1520			
58	20.27	-0.07	6.5089	-7.4058	-0.0248	0.1947	0.0070	0.2845	-1.1378			
59	20.62	-0.06	6.6217	-7.4937	-0.0131	0.2203	-0.0060	0.2700	-1.1317			
60	20.95	-0.06	6.7294	-7.5664	0.0139	0.2015	-0.0080	0.2554	-1.1244			
61	21.32	-0.06	6.8531	-7.4756	0.0101	0.2338	-0.0090	0.2483	-1.0908			
62	21.66	-0.07	6.9195	-7.5636	-0.0428	0.2709	-0.0220	0.2466	-1.0931			
63	21.98	-0.06	6.9923	-7.6865	0.0243	0.1200	-0.0210	0.2456	-1.0993			
64	22.31	-0.05	7.1465	-7.6669	0.0644	0.1578	-0.0310	0.2565	-1.0728			
65	22.61	-0.07	7.2285	-7.9011	0.0532	0.1585	-0.0150	0.2566	-1.0931			
66	22.88	-0.09	7.3667	-8.0407	-0.0159	0.0922	-0.0200	0.2338	-1.0915			
67	23.25	-0.08	7.5477	-7.9681	0.0279	0.1269	-0.0140	0.2060	-1.0557			
68	23.55	-0.07	7.6909	-7.9036	0.0723	0.1698	-0.0200	0.1833	-1.0277			
69	23.91	-0.08	7.8804	-7.8769	0.0254	0.1294	-0.0350	0.1700	-0.9996			
70	24.21	-0.08	8.0456	-7.9973	0.0356	0.1561	-0.0380	0.1871	-0.9940			
71	24.57	-0.09	8.1894	-8.1606	-0.0172	0.0041	-0.0510	0.2084	-0.9965			
72	24.89	-0.09	8.3536	-8.3035	-0.0040	0.0996	-0.0530	0.2317	-0.9940			
73	25.18	-0.09	8.4299	-8.2333	-0.1039	0.3224	-0.0540	0.2494	-0.9767			
74	25.55	-0.09	8.5698	-8.1372	-0.0416	0.2602	-0.0590	0.2499	-0.9495			
75	25.83	-0.10	8.6513	-8.1523	-0.0821	0.3009	-0.0560	0.2440	-0.9423			
76	26.13	-0.08	8.7625	-8.1470	0.0184	0.2812	-0.0790	0.2374	-0.9298			
77	26.44	-0.10	8.8428	-8.1275	-0.0220	0.1638	-0.0820	0.2348	-0.9191			
78	26.75	-0.11	8.9850	-8.1696	-0.1174	0.2683	-0.0920	0.2292	-0.9092			
79	27.03	-0.10	9.0889	-8.2541	-0.0921	0.2339	-0.0910	0.2215	-0.9081			
80	27.37	-0.10	9.2903	-8.3930	-0.1356	0.5234	-0.0730	0.2135	-0.9034			
81	27.71	-0.10	9.4464	-8.4135	-0.1644	0.5691	-0.0890	0.2009	-0.8907			
82	28.01	-0.08	9.6110	-8.4931	-0.1230	0.5951	-0.0900	0.1920	-0.8837			
83	28.30	-0.09	9.7115	-8.5558	-0.1575	0.5054	-0.1010	0.1817	-0.8810			
84	28.60	-0.07	9.8812	-8.5764	-0.1411	0.7884	-0.1200	0.1785	-0.8679			
85	28.92	-0.09	10.0378	-8.6266	-0.1126	0.4186	-0.1160	0.1662	-0.8594			
86	29.26	-0.10	10.1853	-8.6651	-0.0487	0.2921	-0.1340	0.1632	-0.8507			
87	29.58	-0.12	10.3061	-8.6262	-0.1357	-0.0130	-0.1290	0.1507	-0.8370			
88	29.91	-0.15	10.4428	-8.5928	-0.1451	-0.2258	-0.1240	0.1463	-0.8228			
89	30.20	-0.05	10.5200	-8.7058	0.0866	0.3847	-0.1270	0.1405	-0.8275			

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 55 1.05 1.7			0.0	82W2F12	16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.82	0.04	-0.2639	0.0011	0.0483	-0.0044	-0.1850	-0.0551	0.0049	-0.0360	-0.0843	0.6189
2	-2.81	-0.04	-0.2694	0.0012	0.0492	-0.0046	-0.1827	-0.0598	0.0047	-0.0344	-0.0786	0.5757
3	-2.69	-0.01	-0.2708	0.0013	0.0494	-0.0050	-0.1823	-0.0523	0.0041	-0.0322	-0.0793	0.6162
4	-2.02	-0.02	-0.2608	0.0011	0.0482	-0.0044	-0.1848	-0.0380	0.0029	-0.0247	-0.0776	0.6490
5	-1.42	-0.03	-0.2623	0.0012	0.0484	-0.0046	-0.1845	-0.0182	0.0015	-0.0185	-0.0824	1.0145
6	-0.85	-0.02	-0.2606	0.0011	0.0482	-0.0044	-0.1848	-0.0051	0.0003	-0.0116	-0.0588	2.2744
7	-0.31	0.0	-0.2577	0.0011	0.0478	-0.0045	-0.1856	-0.0009	-0.0004	-0.0068	0.4444	7.5554
8	0.22	0.0	-0.2607	0.0012	0.0482	-0.0046	-0.1850	0.0065	-0.0006	-0.0044	-0.0923	-0.6822
9	0.76	-0.03	-0.2886	0.0012	0.0560	-0.0042	-0.1940	0.0176	-0.0013	-0.0006	-0.0739	-0.0361
10	1.29	0.0	-0.2622	0.0012	0.0483	-0.0048	-0.1843	0.0284	-0.0023	0.0049	-0.0810	0.1712
11	1.82	-0.01	-0.2523	0.0011	0.0472	-0.0046	-0.1872	0.0377	-0.0034	0.0117	-0.0915	0.3093
12	2.30	-0.04	-0.2608	0.0012	0.0482	-0.0048	-0.1848	0.0514	-0.0045	0.0162	-0.0875	0.3157
13	2.81	0.0	-0.2664	0.0013	0.0488	-0.0049	-0.1833	0.0670	-0.0060	0.0245	-0.0903	0.3661
14	3.29	-0.02	-0.2662	0.0013	0.0488	-0.0051	-0.1833	0.0791	-0.0071	0.0301	-0.0897	0.3800
15	3.76	-0.04	-0.2604	0.0012	0.0481	-0.0048	-0.1848	0.0984	-0.0085	0.0392	-0.0864	0.3983
16	4.24	-0.01	-0.2686	0.0013	0.0490	-0.0050	-0.1824	0.1159	-0.0094	0.0440	-0.0811	0.3798
17	4.68	-0.02	-0.2742	0.0015	0.0497	-0.0055	-0.1812	0.1366	-0.0104	0.0525	-0.0761	0.3845
18	5.15	0.0	-0.2742	0.0014	0.0496	-0.0053	-0.1810	0.1561	-0.0115	0.0605	-0.0740	0.3877
19	5.60	-0.02	-0.2739	0.0014	0.0496	-0.0053	-0.1812	0.1791	-0.0127	0.0702	-0.0712	0.3918
20	6.07	-0.01	-0.2934	0.0016	0.0518	-0.0056	-0.1765	0.1999	-0.0137	0.0784	-0.0685	0.3922
21	6.54	-0.01	-0.2820	0.0015	0.0505	-0.0053	-0.1790	0.2219	-0.0147	0.0865	-0.0662	0.3900
22	7.01	-0.02	-0.3445	0.0016	0.0669	-0.0046	-0.1941	0.2373	-0.0154	0.0946	-0.0649	0.3985
23	7.45	-0.01	-0.2888	0.0016	0.0512	-0.0055	-0.1773	0.2590	-0.0159	0.1045	-0.0616	0.4035
24	7.87	-0.01	-0.2975	0.0017	0.0522	-0.0059	-0.1755	0.2809	-0.0167	0.1138	-0.0596	0.4051
25	8.33	-0.01	-0.2932	0.0016	0.0518	-0.0055	-0.1765	0.3021	-0.0173	0.1200	-0.0572	0.3971
26	8.75	0.0	-0.2875	0.0015	0.0512	-0.0052	-0.1779	0.3228	-0.0180	0.1290	-0.0559	0.3995
27	9.18	-0.01	-0.2890	0.0016	0.0513	-0.0055	-0.1773	0.3475	-0.0188	0.1377	-0.0541	0.3962
28	9.57	-0.02	-0.2820	0.0015	0.0505	-0.0053	-0.1790	0.3721	-0.0193	0.1466	-0.0520	0.3939
29	10.02	-0.04	-0.3447	0.0016	0.0665	-0.0046	-0.1940	0.3971	-0.0201	0.1539	-0.0506	0.3876
30	10.39	-0.10	-0.2736	0.0013	0.0496	-0.0049	-0.1814	0.4140	-0.0202	0.1618	-0.0489	0.3907
31	10.83	-0.06	-0.2791	0.0014	0.0502	-0.0050	-0.1797	0.4378	-0.0207	0.1686	-0.0474	0.3851
32	11.21	-0.04	-0.2737	0.0013	0.0496	-0.0049	-0.1812	0.4570	-0.0208	0.1763	-0.0454	0.3842
33	11.60	-0.01	-0.2653	0.0012	0.0487	-0.0045	-0.1836	0.4802	-0.0206	0.1826	-0.0430	0.3803
34	11.98	-0.03	-0.2459	0.0009	0.0466	-0.0037	-0.1894	0.5060	-0.0203	0.1895	-0.0401	0.3745
35	12.34	-0.03	-0.2688	0.0012	0.0491	-0.0046	-0.1828	0.5211	-0.0200	0.1960	-0.0384	0.3762
36	12.71	-0.03	-0.2422	0.0008	0.0461	-0.0035	-0.1903	0.5418	-0.0196	0.2020	-0.0362	0.3729
37	13.06	-0.05	-0.2380	0.0008	0.0457	-0.0034	-0.1920	0.5547	-0.0190	0.2044	-0.0343	0.3685
38	13.43	-0.04	-0.2380	0.0008	0.0457	-0.0034	-0.1920	0.5733	-0.0194	0.2114	-0.0339	0.3688
39	13.79	-0.03	-0.2380	0.0008	0.0457	-0.0034	-0.1920	0.5909	-0.0195	0.2165	-0.0331	0.3664
40	14.17	-0.06	-0.2338	0.0008	0.0452	-0.0034	-0.1933	0.6110	-0.0193	0.2224	-0.0317	0.3640
41	14.50	-0.05	-0.2234	0.0006	0.0440	-0.0027	-0.1968	0.6211	-0.0190	0.2245	-0.0306	0.3614
42	14.89	-0.07	-0.2313	0.0007	0.0448	-0.0030	-0.1938	0.6320	-0.0189	0.2281	-0.0300	0.3609
43	15.25	-0.07	-0.2124	0.0005	0.0426	-0.0024	-0.2007	0.6452	-0.0177	0.2300	-0.0274	0.3565
44	15.59	-0.05	-0.1960	0.0002	0.0407	-0.0010	-0.2076	0.6612	-0.0177	0.2353	-0.0268	0.3559
45	15.94	-0.07	-0.1749	-0.0001	0.0383	0.0006	-0.2191	0.6791	-0.0170	0.2395	-0.0251	0.3526
46	16.28	-0.05	-0.1609	-0.0003	0.0368	0.0022	-0.2286	0.7026	-0.0157	0.2456	-0.0223	0.3496

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		55	1.05	1.7	0.0	B2M2F12	16.750	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XC PF1	YCPF1	CNF2	CH2	C82	XC PF2	YCPF2
47	16.61	-0.06	-0.1649	-0.0003	0.0371	0.0021	-0.2253	0.7275	-0.0140	0.2506	-0.0193	0.3445
48	16.95	-0.07	-0.1609	-0.0003	0.0368	0.0022	-0.2286	0.7567	-0.0142	0.2575	-0.0188	0.3403
49	17.27	-0.06	-0.1541	-0.0004	0.0360	0.0026	-0.2339	0.7772	-0.0139	0.2639	-0.0179	0.3395
50	17.60	-0.06	-0.1662	-0.0002	0.0375	0.0015	-0.2258	0.8011	-0.0126	0.2721	-0.0158	0.3397
51	17.92	-0.08	-0.1270	-0.0009	0.0332	0.0071	-0.2613	0.8156	-0.0112	0.2729	-0.0138	0.3346
52	18.28	-0.07	-0.1276	-0.0009	0.0333	0.0074	-0.2608	0.8244	-0.0112	0.2769	-0.0136	0.3359
53	18.59	-0.07	-0.1293	-0.0008	0.0335	0.0062	-0.2592	0.8518	-0.0113	0.2820	-0.0133	0.3311
54	18.94	-0.06	-0.0996	-0.0013	0.0302	0.0130	-0.3033	0.8699	-0.0110	0.2883	-0.0127	0.3314
55	19.26	-0.06	-0.1053	-0.0012	0.0308	0.0119	-0.2926	0.8961	-0.0104	0.2940	-0.0116	0.3281
56	19.59	-0.07	-0.1191	-0.0009	0.0323	0.0080	-0.2713	0.9138	-0.0122	0.3003	-0.0134	0.3286
57	19.94	-0.06	-0.0988	-0.0013	0.0300	0.0132	-0.3034	0.9170	-0.0122	0.3003	-0.0133	0.3274
58	20.27	-0.07	-0.0759	-0.0016	0.0272	0.0211	-0.3585	0.9233	-0.0128	0.3016	-0.0139	0.3266
59	20.62	-0.06	-0.0893	-0.0014	0.0286	0.0157	-0.3208	0.9474	-0.0135	0.3068	-0.0142	0.3238
60	20.95	-0.06	-0.0613	-0.0018	0.0255	0.0294	-0.4156	0.9551	-0.0138	0.3103	-0.0145	0.3248
61	21.32	-0.06	-0.0418	-0.0021	0.0232	0.0502	-0.5543	0.9748	-0.0124	0.3136	-0.0127	0.3217
62	21.66	-0.07	-0.0348	-0.0021	0.0223	0.0618	-0.6409	0.9841	-0.0126	0.3165	-0.0128	0.3216
63	21.98	-0.06	-0.0472	-0.0020	0.0238	0.0424	-0.5036	0.9930	-0.0149	0.3195	-0.0150	0.3217
64	22.31	-0.05	-0.0471	-0.0020	0.0237	0.0435	-0.5033	0.9938	-0.0156	0.3159	-0.0157	0.3178
65	22.61	-0.07	-0.0488	-0.0020	0.0240	0.0410	-0.4926	0.9961	-0.0148	0.3182	-0.0149	0.3195
66	22.88	-0.09	-0.0534	-0.0019	0.0247	0.0356	-0.4627	1.0116	-0.0138	0.3211	-0.0136	0.3174
67	23.25	-0.08	-0.0299	-0.0024	0.0221	0.0803	-0.7404	1.0114	-0.0156	0.3233	-0.0154	0.3197
68	23.55	-0.07	-0.0343	-0.0023	0.0228	0.0685	-0.6639	1.0068	-0.0183	0.3215	-0.0182	0.3193
69	23.91	-0.08	-0.0074	-0.0028	0.0198	0.3851	-2.6803	1.0120	-0.0182	0.3231	-0.0180	0.3193
70	24.21	-0.08	0.0124	-0.0032	0.0176	-0.2580	1.4219	1.0254	-0.0190	0.3274	-0.0186	0.3193
71	24.57	-0.09	0.0140	-0.0033	0.0175	-0.2357	1.2475	1.0409	-0.0197	0.3311	-0.0190	0.3181
72	24.89	-0.09	0.0253	-0.0035	0.0161	-0.1403	0.6376	1.0610	-0.0189	0.3370	-0.0179	0.3177
73	25.18	-0.09	0.0450	-0.0040	0.0139	-0.0889	0.3088	1.0637	-0.0196	0.3375	-0.0185	0.3173
74	25.55	-0.09	0.0502	-0.0039	0.0131	-0.0787	0.2615	1.0717	-0.0206	0.3396	-0.0192	0.3169
75	25.83	-0.10	0.0125	-0.0034	0.0173	-0.2720	1.3812	1.0802	-0.0203	0.3402	-0.0188	0.3150
76	26.13	-0.08	0.0444	-0.0039	0.0137	-0.0884	0.3084	1.0864	-0.0198	0.3413	-0.0183	0.3142
77	26.44	-0.10	0.0499	-0.0040	0.0130	-0.0801	0.2611	1.0891	-0.0208	0.3411	-0.0191	0.3132
78	26.75	-0.11	0.0721	-0.0044	0.0105	-0.0610	0.1460	1.1040	-0.0194	0.3448	-0.0176	0.3123
79	27.03	-0.10	0.0805	-0.0045	0.0096	-0.0565	0.1196	1.1193	-0.0180	0.3500	-0.0161	0.3127
80	27.37	-0.10	0.0504	-0.0043	0.0131	-0.0853	0.2598	1.1318	-0.0185	0.3512	-0.0163	0.3103
81	27.71	-0.10	0.0977	-0.0050	0.0078	-0.0517	0.0794	1.1477	-0.0169	0.3563	-0.0148	0.3105
82	28.01	-0.08	0.0685	-0.0045	0.0110	-0.0664	0.1610	1.1648	-0.0157	0.3597	-0.0135	0.3088
83	28.30	-0.09	0.0476	-0.0049	0.0078	-0.0507	0.0801	1.1826	-0.0158	0.3637	-0.0134	0.3075
84	28.60	-0.07	0.1341	-0.0056	0.0037	-0.0421	0.0275	1.1905	-0.0152	0.3673	-0.0128	0.3085
85	28.92	-0.09	0.1382	-0.0056	0.0032	-0.0405	0.0235	1.2051	-0.0150	0.3709	-0.0125	0.3077
86	29.26	-0.10	0.1143	-0.0050	0.0059	-0.0437	0.0515	1.2175	-0.0147	0.3751	-0.0121	0.3081
87	29.58	-0.12	0.0917	-0.0043	0.0084	-0.0474	0.0911	1.2263	-0.0136	0.3765	-0.0111	0.3070
88	29.91	-0.15	0.1531	-0.0055	0.0015	-0.0362	0.0099	1.2343	-0.0121	0.3779	-0.0098	0.3062
89	30.20	-0.05	0.1365	-0.0053	0.0034	-0.0388	0.0248	1.2384	-0.0121	0.3776	-0.0098	0.3049

PAGE 3 OF 3

SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 55 1.05 1.7 0.0 B2W2F12 16.750 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.82	0.04	0.0350	0.0009	-0.0033	0.0257	-0.0954	-0.0380	0.0057	-0.0317	-0.1500	0.8332
2	-2.81	-0.04	0.0338	0.0006	-0.0012	0.0192	-0.0366	-0.0389	0.0062	-0.0316	-0.1606	0.8114
3	-2.69	-0.01	0.0349	0.0006	-0.0034	0.0172	-0.0966	-0.0297	0.0050	-0.0297	-0.1700	0.9999
4	-2.02	-0.02	0.0310	0.0006	-0.0023	0.0194	-0.0732	-0.0113	0.0038	-0.0224	-0.3406	1.9792
5	-1.42	-0.03	0.0310	0.0006	-0.0023	0.0194	-0.0732	0.0105	0.0022	-0.0163	0.2095	-1.5525
6	-0.85	-0.02	0.0310	0.0005	-0.0023	0.0161	-0.0732	0.0298	0.0005	-0.0102	0.0185	-0.3413
7	-0.31	0.0	0.0371	0.0001	-0.0016	0.0040	-0.0441	0.0394	-0.0002	-0.0068	-0.0063	-0.1719
8	0.22	0.0	0.0371	0.0001	-0.0016	0.0040	-0.0441	0.0515	-0.0008	-0.0049	-0.0155	-0.0959
9	0.76	-0.03	0.0332	0.0000	-0.0005	0.0015	-0.0162	0.0711	-0.0022	-0.0009	-0.0316	-0.0128
10	1.29	0.0	0.0425	-0.0003	0.0004	-0.0071	0.0085	0.0809	-0.0034	0.0056	-0.0420	0.0687
11	1.82	-0.01	0.0423	-0.0009	0.0004	-0.0213	0.0093	0.1006	-0.0052	0.0128	-0.0522	0.1274
12	2.30	-0.04	0.0451	-0.0008	0.0013	-0.0177	0.0294	0.1209	-0.0063	0.0169	-0.0525	0.1397
13	2.81	0.0	0.0330	-0.0012	0.0053	-0.0379	0.1605	0.1386	-0.0077	0.0242	-0.0559	0.1745
14	3.29	-0.02	0.0499	-0.0018	0.0040	-0.0361	0.0807	0.1628	-0.0094	0.0319	-0.0577	0.1962
15	3.76	-0.04	0.0468	-0.0016	0.0038	-0.0353	0.0811	0.1811	-0.0104	0.0381	-0.0574	0.2106
16	4.24	-0.01	0.0461	-0.0024	0.0045	-0.0521	0.0968	0.2022	-0.0116	0.0447	-0.0576	0.2209
17	4.68	-0.02	0.0485	-0.0026	0.0062	-0.0546	0.1270	0.2240	-0.0125	0.0518	-0.0558	0.2314
18	5.15	0.0	0.0520	-0.0025	0.0057	-0.0490	0.1101	0.2444	-0.0134	0.0596	-0.0548	0.2440
19	5.60	-0.02	0.0546	-0.0027	0.0067	-0.0504	0.1226	0.2758	-0.0142	0.0688	-0.0515	0.2483
20	6.07	-0.01	0.0517	-0.0031	0.0058	-0.0609	0.1127	0.2910	-0.0152	0.0756	-0.0522	0.2597
21	6.54	-0.01	0.0461	-0.0030	0.0103	-0.0661	0.2226	0.3224	-0.0163	0.0859	-0.0505	0.2665
22	7.01	-0.02	0.0594	-0.0036	0.0094	-0.0606	0.1581	0.3409	-0.0170	0.0937	-0.0498	0.2749
23	7.45	-0.01	0.0481	-0.0031	0.0126	-0.0644	0.2625	0.3612	-0.0173	0.1032	-0.0479	0.2856
24	7.87	-0.01	0.0601	-0.0027	0.0087	-0.0449	0.1452	0.3839	-0.0180	0.1105	-0.0469	0.2879
25	8.33	-0.01	0.0587	-0.0027	0.0115	-0.0460	0.1952	0.4093	-0.0184	0.1201	-0.0449	0.2934
26	8.75	0.0	0.0716	-0.0027	0.0119	-0.0377	0.1656	0.4384	-0.0188	0.1298	-0.0429	0.2960
27	9.18	-0.01	0.0692	-0.0027	0.0102	-0.0390	0.1468	0.4581	-0.0191	0.1356	-0.0418	0.2959
28	9.57	-0.02	0.0602	-0.0024	0.0151	-0.0399	0.2502	0.4934	-0.0196	0.1455	-0.0397	0.2949
29	10.02	-0.04	0.0602	-0.0024	0.0151	-0.0399	0.2502	0.5126	-0.0198	0.1520	-0.0386	0.2965
30	10.39	-0.10	0.0681	-0.0017	0.0129	-0.0257	0.1893	0.5310	-0.0198	0.1613	-0.0373	0.3038
31	10.83	-0.06	0.0720	-0.0017	0.0118	-0.0243	0.1638	0.5553	-0.0203	0.1694	-0.0365	0.3051
32	11.21	-0.04	0.0724	-0.0015	0.0111	-0.0214	0.1537	0.5779	-0.0208	0.1752	-0.0360	0.3031
33	11.60	-0.01	0.0743	-0.0020	0.0135	-0.0269	0.1811	0.6062	-0.0208	0.1843	-0.0343	0.3040
34	11.98	-0.03	0.0746	-0.0017	0.0135	-0.0228	0.1804	0.6334	-0.0208	0.1913	-0.0328	0.3020
35	12.34	-0.03	0.0725	-0.0017	0.0176	-0.0234	0.2422	0.6514	-0.0200	0.1988	-0.0307	0.3051
36	12.71	-0.03	0.0820	-0.0010	0.0126	-0.0128	0.1539	0.6754	-0.0199	0.2074	-0.0295	0.3072
37	13.06	-0.05	0.0804	-0.0015	0.0154	-0.0187	0.1914	0.6896	-0.0197	0.2121	-0.0286	0.3076
38	13.43	-0.04	0.0781	-0.0011	0.0137	-0.0147	0.1757	0.7085	-0.0197	0.2179	-0.0279	0.3075
39	13.79	-0.03	0.0769	-0.0015	0.0158	-0.0195	0.2058	0.7259	-0.0195	0.2233	-0.0269	0.3076
40	14.17	-0.06	0.0869	-0.0010	0.0166	-0.0115	0.1836	0.7439	-0.0190	0.2295	-0.0256	0.3085
41	14.50	-0.05	0.0861	-0.0017	0.0167	-0.0197	0.1938	0.7595	-0.0186	0.2343	-0.0245	0.3085
42	14.89	-0.07	0.0917	-0.0020	0.0179	-0.0224	0.1947	0.7727	-0.0178	0.2392	-0.0230	0.3095
43	15.25	-0.07	0.0979	-0.0023	0.0177	-0.0235	0.1810	0.7890	-0.0167	0.2426	-0.0212	0.3075
44	15.59	-0.05	0.0910	-0.0020	0.0178	-0.0225	0.1959	0.8016	-0.0173	0.2479	-0.0216	0.3093
45	15.94	-0.07	0.0964	-0.0020	0.0197	-0.0207	0.2046	0.8245	-0.0169	0.2545	-0.0205	0.3086
46	16.28	-0.05	0.0854	-0.0020	0.0155	-0.0240	0.1857	0.8464	-0.0168	0.2607	-0.0199	0.3079

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	REID-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		55	1.05	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CMF3	CM3	CB3	YCPF3	YCPF3	CMF4	CM4	CB4	XCPF4	YCPF4
47	16.61	-0.06	0.0911	-0.0014	0.0177	-0.0159	0.1938	0.4656	-0.0158	0.2655	-0.0182	0.3068
48	16.95	-0.07	0.0944	-0.0020	0.0187	-0.0207	0.2046	0.5862	-0.0165	0.2734	-0.0186	0.3087
49	17.27	-0.06	0.0912	-0.0014	0.0177	-0.0159	0.1940	0.9093	-0.0166	0.2801	-0.0183	0.3080
50	17.60	-0.04	0.0975	-0.0009	0.0197	-0.0097	0.2019	0.9313	-0.0151	0.2887	-0.0163	0.3100
51	17.92	-0.08	0.0977	-0.0006	0.0198	-0.0067	0.2022	0.9472	-0.0141	0.2913	-0.0149	0.3076
52	18.28	-0.07	0.0983	-0.0006	0.0198	-0.0061	0.2010	0.9599	-0.0137	0.2984	-0.0143	0.3108
53	18.59	-0.07	0.0984	-0.0001	0.0195	-0.0010	0.2014	0.9719	-0.0134	0.3012	-0.0138	0.3099
54	18.94	-0.06	0.0931	-0.0001	0.0179	-0.0011	0.1925	1.0006	-0.0130	0.3075	-0.0130	0.3073
55	19.26	-0.04	0.1126	-0.0005	0.0183	-0.0049	0.1627	1.0285	-0.0134	0.3165	-0.0130	0.3077
56	19.59	-0.07	0.0980	-0.0009	0.0199	-0.0097	0.2026	1.0457	-0.0148	0.3178	-0.0142	0.3039
57	19.94	-0.06	0.1194	-0.0010	0.0218	-0.0084	0.1625	1.0570	-0.0150	0.3214	-0.0142	0.3041
58	20.27	-0.07	0.1093	-0.0004	0.0220	-0.0037	0.2015	1.0647	-0.0154	0.3230	-0.0145	0.3034
59	20.62	-0.06	0.1128	-0.0000	0.0195	-0.0004	0.1728	1.0753	-0.0155	0.3246	-0.0144	0.3019
60	20.95	-0.06	0.1147	0.0	0.0273	0.0	0.2382	1.0938	-0.0159	0.3290	-0.0145	0.3008
61	21.32	-0.06	0.1150	-0.0005	0.0252	-0.0043	0.2193	1.0992	-0.0149	0.3319	-0.0136	0.3019
62	21.64	-0.07	0.1159	-0.0004	0.0232	-0.0035	0.2003	1.1013	-0.0146	0.3330	-0.0133	0.3023
63	21.98	-0.06	0.1293	-0.0008	0.0280	-0.0046	0.2164	1.1164	-0.0160	0.3332	-0.0144	0.2985
64	22.31	-0.05	0.1232	-0.0008	0.0285	-0.0049	0.2318	1.1244	-0.0150	0.3380	-0.0133	0.3005
65	22.61	-0.07	0.1238	-0.0004	0.0287	-0.0032	0.2322	1.1394	-0.0151	0.3402	-0.0133	0.2986
66	22.88	-0.09	0.1375	-0.0009	0.0294	-0.0043	0.2139	1.1494	-0.0141	0.3458	-0.0123	0.3009
67	23.25	-0.08	0.1258	-0.0012	0.0291	-0.0099	0.2315	1.1543	-0.0147	0.3452	-0.0127	0.2991
68	23.55	-0.07	0.1266	-0.0012	0.0294	-0.0099	0.2321	1.1577	-0.0145	0.3457	-0.0125	0.2986
69	23.91	-0.08	0.1377	-0.0014	0.0283	-0.0105	0.2054	1.1675	-0.0143	0.3495	-0.0122	0.2994
70	24.21	-0.08	0.1393	-0.0019	0.0320	-0.0136	0.2298	1.1824	-0.0145	0.3545	-0.0123	0.2998
71	24.57	-0.09	0.1579	-0.0019	0.0347	-0.0138	0.2526	1.2080	-0.0143	0.3607	-0.0119	0.2986
72	24.89	-0.09	0.1512	-0.0023	0.0344	-0.0152	0.2274	1.2280	-0.0147	0.3658	-0.0120	0.2979
73	25.18	-0.09	0.1484	-0.0017	0.0311	-0.0115	0.2099	1.2369	-0.0145	0.3675	-0.0117	0.2971
74	25.55	-0.09	0.1506	-0.0019	0.0313	-0.0129	0.2077	1.2330	-0.0151	0.3662	-0.0123	0.2970
75	25.83	-0.10	0.1467	-0.0018	0.0308	-0.0126	0.2098	1.2434	-0.0139	0.3682	-0.0112	0.2961
76	26.13	-0.08	0.1586	-0.0028	0.0331	-0.0180	0.2090	1.2501	-0.0139	0.3691	-0.0111	0.2952
77	26.44	-0.10	0.1606	-0.0028	0.0347	-0.0177	0.2162	1.2543	-0.0135	0.3714	-0.0108	0.2961
78	26.75	-0.11	0.1572	-0.0025	0.0352	-0.0162	0.2238	1.2671	-0.0132	0.3731	-0.0105	0.2945
79	27.03	-0.10	0.1527	-0.0030	0.0383	-0.0200	0.2507	1.2802	-0.0118	0.3787	-0.0093	0.2958
80	27.37	-0.10	0.1469	-0.0019	0.0308	-0.0133	0.2100	1.2939	-0.0119	0.3838	-0.0092	0.2967
81	27.71	-0.10	0.1529	-0.0022	0.0320	-0.0147	0.2096	1.3182	-0.0111	0.3890	-0.0084	0.2951
82	28.01	-0.08	0.1475	-0.0024	0.0301	-0.0166	0.2044	1.3228	-0.0109	0.3925	-0.0082	0.2967
83	28.30	-0.09	0.1492	-0.0032	0.0337	-0.0214	0.2260	1.3324	-0.0107	0.3966	-0.0080	0.2976
84	28.60	-0.07	0.1567	-0.0028	0.0317	-0.0182	0.2024	1.3487	-0.0109	0.3994	-0.0081	0.2961
85	28.92	-0.09	0.1473	-0.0024	0.0305	-0.0166	0.2047	1.3556	-0.0111	0.4011	-0.0082	0.2959
86	29.26	-0.10	0.1655	-0.0039	0.0344	-0.0236	0.2081	1.3666	-0.0110	0.4043	-0.0080	0.2958
87	29.58	-0.12	0.1717	-0.0039	0.0350	-0.0230	0.2039	1.3672	-0.0108	0.4062	-0.0079	0.2971
88	29.91	-0.15	0.1778	-0.0038	0.0356	-0.0216	0.2005	1.3765	-0.0115	0.4084	-0.0084	0.2967
89	30.20	-0.05	0.1740	-0.0039	0.0367	-0.0227	0.2108	1.3856	-0.0108	0.4096	-0.0078	0.2960

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION
6	56	1.01 1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.81	-0.05	-0.5686	0.2262	0.0139	-0.1254	0.0220	0.3338	-0.3977	
2	-2.81	0.01	-0.5523	0.1973	0.1184	-0.1987	0.0220	0.3306	-0.3573	
3	-2.65	0.0	-0.5287	0.2233	0.0323	-0.1092	0.0250	0.3361	-0.4223	
4	-2.01	-0.06	-0.4017	0.1485	0.0840	0.0124	0.0220	0.3398	-0.3696	
5	-1.39	-0.04	-0.2611	0.0525	0.0743	-0.1120	0.0240	0.3371	-0.2012	
6	-0.82	-0.04	-0.0914	0.0220	0.0336	-0.0820	0.0170	0.3367	-0.2403	
7	-0.28	-0.02	-0.0178	0.0139	0.1482	-0.0345	0.0190	0.3488	-0.7820	
8	0.28	0.01	0.0906	0.0232	0.1700	-0.0320	0.0180	0.3481	0.2556	
9	0.78	0.0	0.1719	0.0153	0.1486	-0.0310	0.0210	0.3485	0.0892	
10	1.31	-0.01	0.2978	0.0061	0.1092	-0.1059	0.0180	0.3476	0.0204	
11	1.85	0.0	0.3966	-0.0334	0.1408	-0.0871	0.0240	0.3478	-0.0841	
12	2.32	-0.02	0.5081	-0.0925	0.0583	-0.1116	0.0240	0.3453	-0.1820	
13	2.83	-0.01	0.6519	-0.2218	0.1236	-0.0590	0.0210	0.3469	-0.3402	
14	3.31	-0.01	0.7697	-0.2927	0.0523	-0.0412	0.0250	0.3431	-0.3803	
15	3.79	0.0	0.8645	-0.3954	0.0375	0.0045	0.0260	0.3371	-0.4574	
16	4.26	-0.01	1.0362	-0.5547	0.0829	-0.0580	0.0220	0.3370	-0.5354	
17	4.73	-0.01	1.1431	-0.6754	0.1315	-0.0191	0.0250	0.3415	-0.5909	
18	5.18	-0.01	1.2770	-0.8260	0.1351	-0.1191	0.0250	0.3530	-0.6468	
19	5.63	-0.01	1.4425	-0.9517	0.1103	-0.1354	0.0290	0.3480	-0.6597	
20	6.09	-0.01	1.5605	-1.1248	0.0540	0.0084	0.0280	0.3571	-0.7208	
21	6.55	-0.04	1.6832	-1.2156	0.0292	-0.0189	0.0280	0.3510	-0.7222	
22	7.04	-0.02	1.8432	-1.3796	0.0095	-0.0863	0.0270	0.3443	-0.7485	
23	7.48	-0.04	1.9862	-1.5499	0.0644	-0.0332	0.0280	0.3386	-0.7803	
24	7.92	-0.01	2.0920	-1.7080	0.0594	-0.0761	0.0260	0.3527	-0.8164	
25	8.35	-0.02	2.2378	-1.8861	0.1355	-0.0667	0.0250	0.3554	-0.8428	
26	8.78	-0.01	2.4255	-2.1358	0.0665	0.0059	0.0270	0.3639	-0.8806	
27	9.20	-0.07	2.5033	-2.2447	-0.0402	-0.0207	0.0320	0.3674	-0.8967	
28	9.60	-0.01	2.6461	-2.4286	-0.0365	-0.0639	0.0250	0.3670	-0.9178	
29	10.04	-0.03	2.7644	-2.5764	0.1863	-0.0668	0.0280	0.3677	-0.9320	
30	10.43	-0.03	2.9160	-2.7586	0.0651	0.0149	0.0270	0.3375	-0.9460	
31	10.86	-0.01	3.0386	-2.9262	0.0520	-0.0498	0.0350	0.3143	-0.9630	
32	11.24	-0.01	3.1117	-2.9566	0.0770	-0.0138	0.0280	0.3098	-0.9501	
33	11.64	-0.04	3.2181	-3.1355	0.0195	-0.0263	0.0320	0.3142	-0.9743	
34	12.01	-0.03	3.4069	-3.3338	0.0810	-0.0414	0.0300	0.3040	-0.9706	
35	12.37	-0.03	3.5207	-3.4862	0.1126	-0.0446	0.0320	0.3032	-0.9902	
36	12.73	-0.02	3.6382	-3.6297	0.1595	-0.0573	0.0350	0.2970	-0.9977	
37	13.09	-0.05	3.7851	-3.7723	0.0252	-0.0713	0.0250	0.2955	-0.9966	
38	13.46	-0.04	3.9448	-3.9839	0.0484	0.0122	0.0370	0.2902	-1.0099	
39	13.83	-0.05	4.1182	-4.2276	0.0884	-0.0178	0.0290	0.2889	-1.0266	
40	14.20	-0.06	4.2089	-4.3047	0.0188	-0.0213	0.0290	0.2864	-1.0228	
41	14.53	-0.07	4.3699	-4.5071	-0.0409	0.0263	0.0380	0.2900	-1.0314	
42	14.92	-0.05	4.4875	-4.6387	0.0255	0.0543	0.0340	0.2924	-1.0337	
43	15.27	-0.06	4.5970	-4.8200	0.0140	-0.0166	0.0240	0.2962	-1.0485	
44	15.62	-0.05	4.7501	-5.0203	0.0008	0.0969	0.0270	0.2967	-1.0569	
45	15.95	-0.06	4.8954	-5.2107	-0.0173	0.0542	0.0260	0.2745	-1.0644	
46	16.28	-0.05	5.0386	-5.4253	0.0535	0.0701	0.0340	0.2680	-1.0767	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	56	1.01	1.7	0.0	0.2M2F12	16.750	0	0	0	FIXED
PGINT	ALPHA	BETA	CM	CLM	CV	CLN	CLL	CAF	XCP	
47	16.62	-0.06	5.1557	-5.5702	-0.0273	0.1012	0.0350	0.2620	-1.0004	
48	16.96	-0.08	5.2926	-5.7399	-0.0517	0.0604	0.0230	0.2590	-1.0045	
49	17.28	-0.09	5.3940	-5.8838	-0.1623	0.1012	0.0230	0.2561	-1.0908	
50	17.60	-0.06	5.5231	-6.0765	0.0243	0.1070	0.0200	0.2512	-1.1002	
51	17.96	-0.07	5.6866	-6.2564	-0.0532	0.1625	0.0120	0.2409	-1.1002	
52	18.29	-0.07	5.8193	-6.4193	-0.0516	0.1202	0.0100	0.2302	-1.1031	
53	18.61	-0.07	5.9322	-6.5883	-0.0533	0.1806	0.0220	0.2225	-1.1106	
54	18.95	-0.08	6.0286	-6.7553	-0.0649	0.0928	0.0160	0.2092	-1.1205	
55	19.28	-0.07	6.1835	-6.9611	-0.0268	0.2085	0.0130	0.2003	-1.1250	
56	19.50	-0.07	6.3065	-7.1103	-0.0566	0.2752	0.0080	0.1905	-1.1275	
57	19.93	-0.08	6.4329	-7.2712	-0.0916	0.1792	0.0100	0.1814	-1.1303	
58	20.26	-0.07	6.5674	-7.4256	-0.0665	0.2241	0.0060	0.1737	-1.1307	
59	20.61	-0.08	6.6754	-7.5178	-0.0713	0.1908	0.0030	0.1649	-1.1262	
60	20.94	-0.08	6.8321	-7.6752	-0.0894	0.2371	-0.0020	0.1574	-1.1234	
61	21.27	-0.07	6.8914	-7.7702	-0.0660	0.2104	-0.0090	0.1587	-1.1275	
62	21.63	-0.08	7.1169	-7.8769	-0.1389	0.2244	-0.0120	0.1644	-1.1060	
63	21.96	-0.06	7.2492	-7.9351	0.0120	0.2002	-0.0040	0.1716	-1.0946	
64	22.30	-0.07	7.3449	-7.8692	-0.0504	0.2175	-0.0240	0.1865	-1.0714	
65	22.62	-0.07	7.4724	-7.8717	-0.0564	0.2649	-0.0170	0.1857	-1.0534	
66	22.91	-0.06	7.5612	-7.8600	0.0189	0.2575	-0.0140	0.1911	-1.0395	
67	23.25	-0.08	7.6646	-7.8688	-0.0268	0.2335	-0.0250	0.1876	-1.0266	
68	23.56	-0.09	7.7874	-7.8637	-0.0561	0.1635	-0.0120	0.1805	-1.0098	
69	23.88	-0.08	7.8960	-7.8898	0.0140	0.1574	-0.0230	0.1732	-0.9992	
70	24.22	-0.08	8.0416	-8.0017	0.0027	0.1862	-0.0210	0.1581	-0.9950	
71	24.53	-0.09	8.1702	-8.0958	-0.0683	0.2316	-0.0080	0.1443	-0.9909	
72	24.87	-0.09	8.3273	-8.3167	-0.0550	0.2900	-0.0350	0.1162	-0.9987	
73	25.15	-0.10	8.5378	-8.4084	-0.1162	0.2816	-0.0310	0.1106	-0.9848	
74	25.49	-0.09	8.6012	-8.4531	-0.0393	0.1670	-0.0420	0.1061	-0.9828	
75	25.79	-0.09	8.7673	-8.4966	-0.0668	0.3605	-0.0570	0.1042	-0.9691	
76	26.08	-0.08	8.9318	-8.6421	-0.1409	0.5812	-0.0170	0.1064	-0.9676	
77	26.41	-0.08	9.0862	-8.5602	-0.0368	0.3115	-0.0790	0.1200	-0.9421	
78	26.72	-0.09	9.2456	-8.5674	-0.1428	0.4299	-0.0740	0.1457	-0.9266	
79	27.03	-0.08	9.3838	-8.5189	-0.1131	0.5583	-0.0720	0.1670	-0.9078	
80	27.37	-0.09	9.5404	-8.4141	-0.1300	0.3700	-0.0770	0.1850	-0.8820	
81	27.68	-0.09	9.6330	-8.3759	-0.2046	0.6814	-0.0780	0.1962	-0.8695	
82	28.01	-0.10	9.7366	-8.3990	-0.2150	0.5869	-0.0820	0.1894	-0.8626	
83	28.31	-0.08	9.8652	-8.4620	-0.0717	0.3753	-0.0990	0.1841	-0.8578	
84	28.61	-0.09	9.9716	-8.4518	-0.2677	0.8897	-0.0970	0.1554	-0.8491	
85	28.91	-0.06	10.0093	-8.4937	-0.0565	0.6688	-0.1130	0.1411	-0.8406	
86	29.25	-0.11	10.2390	-8.6003	-0.1251	0.3211	-0.1070	0.1199	-0.8400	
87	29.55	-0.06	10.3313	-8.6565	0.0292	0.5011	-0.1120	0.0962	-0.8379	
88	29.86	-0.11	10.4961	-8.6954	0.0211	-0.1005	-0.1080	0.0660	-0.8284	
89	30.17	-0.08	10.6448	-8.6855	0.0944	0.0078	-0.1200	0.0475	-0.8150	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	56	1.01 1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	LB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-2.81	-0.05	-0.2975	0.0011	0.0578	-0.0037	-0.1943	-0.0510	0.0058	-0.0350	-0.1137	0.6862
2	-2.81	0.01	-0.3205	0.0010	0.0653	-0.0033	-0.2036	-0.0501	0.0057	-0.0329	-0.1138	0.6566
3	-2.65	0.0	-0.2930	0.0011	0.0573	-0.0038	-0.1956	-0.0474	0.0053	-0.0324	-0.1118	0.6834
4	-2.01	-0.06	-0.3258	0.0011	0.0658	-0.0034	-0.2019	-0.0315	0.0033	-0.0235	-0.1063	0.7459
5	-1.39	-0.04	-0.3316	0.0012	0.0665	-0.0036	-0.2004	-0.0167	0.0017	-0.0163	-0.1018	0.9739
6	-0.82	-0.04	-0.2839	0.0010	0.0563	-0.0035	-0.1981	-0.0030	0.0003	-0.0103	-0.1166	3.4332
7	-0.28	-0.02	-0.3185	0.0011	0.0649	-0.0035	-0.2038	0.0028	-0.0003	-0.0057	-0.1071	-2.0239
8	0.28	0.01	-0.2625	0.0011	0.0489	-0.0042	-0.1864	0.0104	-0.0006	-0.0032	-0.0577	-0.3110
9	0.78	0.0	-0.2883	0.0011	0.0567	-0.0038	-0.1966	0.0193	-0.0012	0.0000	-0.0648	0.0016
10	1.31	-0.01	-0.2611	0.0011	0.0488	-0.0042	-0.1869	0.0293	-0.0024	0.0050	-0.0836	0.1694
11	1.85	0.0	-0.2686	0.0012	0.0497	-0.0047	-0.1850	0.0365	-0.0035	0.0101	-0.0959	0.2757
12	2.32	-0.02	-0.2559	0.0010	0.0482	-0.0041	-0.1885	0.0505	-0.0049	0.0160	-0.0980	0.3174
13	2.83	-0.01	-0.2852	0.0010	0.0564	-0.0037	-0.1978	0.0682	-0.0065	0.0240	-0.0953	0.3523
14	3.31	-0.01	-0.2666	0.0012	0.0495	-0.0045	-0.1855	0.0807	-0.0077	0.0303	-0.0954	0.3753
15	3.79	0.0	-0.2696	0.0012	0.0499	-0.0045	-0.1850	0.0957	-0.0089	0.0378	-0.0930	0.3949
16	4.26	-0.01	-0.2656	0.0012	0.0494	-0.0045	-0.1860	0.1147	-0.0102	0.0462	-0.0889	0.4030
17	4.73	-0.01	-0.2612	0.0011	0.0490	-0.0042	-0.1875	0.1313	-0.0112	0.0527	-0.0853	0.4018
18	5.18	-0.01	-0.2699	0.0012	0.0495	-0.0044	-0.1848	0.1527	-0.0124	0.0623	-0.0815	0.4079
19	5.63	-0.01	-0.3277	0.0012	0.0662	-0.0037	-0.2019	0.1744	-0.0137	0.0708	-0.0788	0.4060
20	6.09	-0.01	-0.2786	0.0013	0.0509	-0.0047	-0.1828	0.1920	-0.0146	0.0785	-0.0760	0.4087
21	6.55	-0.04	-0.3360	0.0013	0.0671	-0.0039	-0.1997	0.2132	-0.0151	0.0870	-0.0708	0.4083
22	7.04	-0.02	-0.2851	0.0014	0.0516	-0.0051	-0.1808	0.2317	-0.0154	0.0953	-0.0665	0.4113
23	7.48	-0.04	-0.2828	0.0013	0.0512	-0.0048	-0.1811	0.2525	-0.0156	0.1032	-0.0620	0.4089
24	7.92	-0.01	-0.2814	0.0013	0.0510	-0.0046	-0.1812	0.2701	-0.0159	0.1102	-0.0590	0.4080
25	8.35	-0.02	-0.2811	0.0013	0.0510	-0.0046	-0.1814	0.2980	-0.0162	0.1178	-0.0543	0.3953
26	8.78	-0.01	-0.2894	0.0014	0.0518	-0.0050	-0.1790	0.3223	-0.0168	0.1292	-0.0521	0.4008
27	9.20	-0.07	-0.3376	0.0013	0.0665	-0.0040	-0.1980	0.3386	-0.0169	0.1344	-0.0499	0.3970
28	9.60	-0.01	-0.2857	0.0014	0.0514	-0.0049	-0.1797	0.3605	-0.0173	0.1424	-0.0481	0.3951
29	10.04	-0.03	-0.2811	0.0013	0.0508	-0.0048	-0.1807	0.3802	-0.0176	0.1504	-0.0463	0.3955
30	10.43	-0.03	-0.3024	0.0012	0.0580	-0.0041	-0.1917	0.4004	-0.0180	0.1575	-0.0449	0.3934
31	10.86	-0.01	-0.2817	0.0013	0.0510	-0.0048	-0.1810	0.4110	-0.0181	0.1625	-0.0441	0.3952
32	11.24	-0.01	-0.2746	0.0012	0.0502	-0.0045	-0.1826	0.4283	-0.0185	0.1661	-0.0432	0.3878
33	11.64	-0.04	-0.2672	0.0011	0.0495	-0.0041	-0.1851	0.4440	-0.0189	0.1723	-0.0427	0.3882
34	12.01	-0.03	-0.2740	0.0012	0.0503	-0.0046	-0.1836	0.4618	-0.0192	0.1803	-0.0416	0.3904
35	12.37	-0.03	-0.2772	0.0013	0.0507	-0.0047	-0.1828	0.4820	-0.0194	0.1853	-0.0403	0.3844
36	12.73	-0.02	-0.2750	0.0013	0.0504	-0.0047	-0.1833	0.4949	-0.0196	0.1895	-0.0397	0.3829
37	13.09	-0.05	-0.2897	0.0015	0.0521	-0.0052	-0.1799	0.5102	-0.0198	0.1955	-0.0389	0.3832
38	13.46	-0.04	-0.2490	0.0009	0.0475	-0.0036	-0.1909	0.5261	-0.0195	0.1998	-0.0371	0.3798
39	13.83	-0.05	-0.2344	0.0007	0.0459	-0.0030	-0.1958	0.5490	-0.0189	0.2084	-0.0344	0.3797
40	14.20	-0.06	-0.2119	0.0003	0.0433	-0.0017	-0.2043	0.5607	-0.0183	0.2124	-0.0326	0.3789
41	14.53	-0.07	-0.2308	0.0006	0.0455	-0.0028	-0.1971	0.5864	-0.0176	0.2182	-0.0301	0.3721
42	14.92	-0.05	-0.2314	0.0002	0.0503	-0.0009	-0.2173	0.5992	-0.0172	0.2235	-0.0287	0.3729
43	15.27	-0.06	-0.1968	0.0001	0.0416	-0.0008	-0.2115	0.6240	-0.0166	0.2279	-0.0267	0.3653
44	15.62	-0.05	-0.1964	0.0001	0.0415	-0.0008	-0.2116	0.6393	-0.0164	0.2335	-0.0256	0.3653
45	15.95	-0.06	-0.2250	0.0001	0.0495	-0.0004	-0.2201	0.6615	-0.0160	0.2385	-0.0243	0.3606
46	16.28	-0.05	-0.2436	0.0	0.0564	0.0	-0.2316	0.6830	-0.0146	0.2460	-0.0214	0.3602

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 56 1.01 1.7 0.0 82W2F12 16.750 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CHI1	CBI1	XCPF1	YCPF1	CNF2	CHI2	CBI2	XCPF2	YCPF2
47	16.62	-0.06	-0.1717	-0.0002	0.0387	0.0012	-0.2253	0.7026	-0.0150	0.2509	-0.0213	0.3571
48	16.96	-0.08	-0.2235	-0.0002	0.0542	0.0011	-0.2426	0.7211	-0.0145	0.2564	-0.0201	0.3555
49	17.28	-0.09	-0.1904	-0.0004	0.0456	0.0021	-0.2398	0.7397	-0.0142	0.2606	-0.0192	0.3523
50	17.60	-0.06	-0.2034	-0.0006	0.0520	0.0029	-0.2558	0.7575	-0.0140	0.2648	-0.0185	0.3496
51	17.94	-0.07	-0.1475	-0.0006	0.0360	0.0041	-0.2444	0.7777	-0.0133	0.2715	-0.0171	0.3492
52	18.29	-0.07	-0.1228	-0.0010	0.0334	0.0081	-0.2718	0.7939	-0.0134	0.2757	-0.0169	0.3473
53	18.61	-0.07	-0.1317	-0.0008	0.0343	0.0065	-0.2606	0.8092	-0.0134	0.2781	-0.0166	0.3437
54	18.95	-0.08	-0.1606	-0.0007	0.0424	0.0047	-0.2639	0.8325	-0.0127	0.2847	-0.0152	0.3420
55	19.28	-0.07	-0.1394	-0.0006	0.0352	0.0047	-0.2529	0.8527	-0.0124	0.2895	-0.0146	0.3395
56	19.59	-0.07	-0.1481	-0.0010	0.0411	0.0068	-0.2779	0.8713	-0.0117	0.2948	-0.0135	0.3384
57	19.93	-0.08	-0.1296	-0.0008	0.0342	0.0066	-0.2640	0.8886	-0.0113	0.2996	-0.0127	0.3372
58	20.26	-0.07	-0.1004	-0.0013	0.0309	0.0129	-0.3082	0.9019	-0.0112	0.3024	-0.0125	0.3353
59	20.61	-0.08	-0.1108	-0.0011	0.0322	0.0099	-0.2904	0.9230	-0.0110	0.3064	-0.0119	0.3319
60	20.94	-0.08	-0.0887	-0.0015	0.0296	0.0169	-0.3342	0.9362	-0.0110	0.3098	-0.0117	0.3309
61	21.27	-0.07	-0.0888	-0.0015	0.0297	0.0169	-0.3346	0.9476	-0.0113	0.3126	-0.0119	0.3298
62	21.63	-0.08	-0.0653	-0.0019	0.0270	0.0291	-0.4141	0.9707	-0.0120	0.3200	-0.0124	0.3296
63	21.96	-0.06	-0.0712	-0.0017	0.0277	0.0246	-0.3887	0.9829	-0.0132	0.3225	-0.0135	0.3281
64	22.30	-0.07	-0.0505	-0.0020	0.0254	0.0406	-0.5024	0.9939	-0.0147	0.3239	-0.0148	0.3259
65	22.62	-0.07	-0.0445	-0.0022	0.0247	0.0494	-0.5544	0.9915	-0.0155	0.3235	-0.0156	0.3263
66	22.91	-0.06	-0.0356	-0.0023	0.0235	0.0646	-0.6612	0.9851	-0.0165	0.3196	-0.0168	0.3244
67	23.25	-0.08	-0.0498	-0.0025	0.0300	0.0502	-0.6025	0.9950	-0.0162	0.3211	-0.0163	0.3227
68	23.56	-0.09	-0.0355	-0.0023	0.0235	0.0648	-0.6612	0.9929	-0.0167	0.3219	-0.0169	0.3242
69	23.88	-0.08	-0.0354	-0.0023	0.0234	0.0650	-0.6611	0.9918	-0.0169	0.3208	-0.0170	0.3234
70	24.22	-0.08	-0.0266	-0.0025	0.0224	0.0938	-0.8435	1.0114	-0.0157	0.3248	-0.0156	0.3212
71	24.53	-0.09	-0.0309	-0.0026	0.0230	0.0841	-0.7445	1.0162	-0.0147	0.3275	-0.0145	0.3223
72	24.87	-0.09	-0.0263	-0.0031	0.0274	0.1198	-1.0432	1.0443	-0.0115	0.3345	-0.0110	0.3203
73	25.15	-0.10	-0.0264	-0.0031	0.0275	0.1193	-1.0418	1.0660	-0.0098	0.3412	-0.0092	0.3201
74	25.49	-0.09	-0.0265	-0.0030	0.0276	0.1151	-1.0404	1.0860	-0.0075	0.3453	-0.0069	0.3179
75	25.79	-0.09	0.0217	-0.0034	0.0172	-0.1590	0.7940	1.0998	-0.0055	0.3467	-0.0050	0.3152
76	26.08	-0.08	-0.0150	-0.0029	0.0214	0.1933	-1.4268	1.1121	-0.0064	0.3506	-0.0058	0.3152
77	26.41	-0.08	0.0147	-0.0038	0.0230	-0.2585	1.5645	1.1288	-0.0051	0.3526	-0.0045	0.3124
78	26.72	-0.09	0.0806	-0.0044	0.0107	-0.0552	0.1322	1.1232	-0.0080	0.3546	-0.0072	0.3157
79	27.03	-0.08	0.0385	-0.0047	0.0251	-0.1221	0.6527	1.1341	-0.0098	0.3567	-0.0086	0.3145
80	27.37	-0.09	0.0321	-0.0041	0.0208	-0.1293	0.6479	1.1437	-0.0091	0.3589	-0.0080	0.3138
81	27.68	-0.09	0.0364	-0.0043	0.0202	-0.1181	0.5557	1.1487	-0.0111	0.3607	-0.0097	0.3140
82	28.01	-0.10	0.0378	-0.0044	0.0199	-0.1164	0.5263	1.1550	-0.0112	0.3613	-0.0097	0.3128
83	28.31	-0.08	0.0805	-0.0045	0.0103	-0.0559	0.1282	1.1679	-0.0102	0.3636	-0.0087	0.3113
84	28.61	-0.09	0.0756	-0.0056	0.0205	-0.0741	0.2710	1.1686	-0.0092	0.3642	-0.0079	0.3117
85	28.91	-0.06	0.1226	-0.0057	0.0104	-0.0465	0.0844	1.1894	-0.0065	0.3670	-0.0055	0.3086
86	29.25	-0.11	0.1092	-0.0048	0.0071	-0.0439	0.0649	1.2061	-0.0033	0.3718	-0.0028	0.3083
87	29.55	-0.06	0.0997	-0.0051	0.0130	-0.0516	0.1306	1.2197	0.0003	0.3725	0.0003	0.3054
88	29.86	-0.11	0.1008	-0.0043	0.0081	-0.0427	0.0802	1.2418	0.0104	0.3747	0.0084	0.3017
89	30.17	-0.08	0.0462	-0.0040	0.0191	-0.0866	0.4133	1.2462	0.0107	0.3757	0.0086	0.3014

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST PART MACH RX10-6 PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 56 1.01 1.7 0.0 B2W2F12 16.750 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	-2.81	-0.05	0.0403	0.0015	-0.0047	0.0385	-0.1159	-0.0384	0.0066	-0.0286	-0.1718	0.7447
2	-2.81	0.01	0.0367	0.0016	-0.0043	0.0450	-0.1164	-0.0345	0.0066	-0.0286	-0.1927	0.8289
3	-2.65	0.0	0.0370	0.0015	-0.0049	0.0419	-0.1317	-0.0312	0.0061	-0.0275	-0.1955	0.8813
4	-2.01	-0.06	0.0510	0.0015	-0.0058	0.0304	-0.1138	-0.0088	0.0042	-0.0196	-0.4829	2.2309
5	-1.39	-0.04	0.0473	0.0012	-0.0054	0.0264	-0.1150	0.0094	0.0029	-0.0142	0.3085	-1.5072
6	-0.82	-0.04	0.0400	0.0011	-0.0046	0.0287	-0.1143	0.0255	0.0011	-0.0084	0.0451	-0.3295
7	-0.28	-0.02	0.0400	0.0009	-0.0046	0.0237	-0.1143	0.0384	0.0002	-0.0061	0.0052	-0.1590
8	0.28	0.01	0.0471	0.0006	-0.0054	0.0138	-0.1148	0.0457	-0.0005	-0.0031	-0.0109	-0.0672
9	0.78	0.0	0.0382	0.0002	-0.0017	0.0065	-0.0437	0.0615	-0.0017	0.0006	-0.0276	0.0096
10	1.31	-0.01	0.0346	0.0002	-0.0013	0.0072	-0.0367	0.0739	-0.0031	0.0034	-0.0426	0.0463
11	1.85	0.0	0.0490	0.0001	-0.0029	0.0031	-0.0586	0.0402	-0.0048	0.0092	-0.0532	0.1015
12	2.32	-0.02	0.0382	-0.0002	-0.0017	-0.0065	-0.0437	0.1119	-0.0064	0.0144	-0.0576	0.1286
13	2.83	-0.01	0.0366	-0.0005	0.0012	-0.0150	0.0327	0.1344	-0.0079	0.0232	-0.0567	0.1668
14	3.31	-0.01	0.0506	-0.0009	0.0003	-0.0178	0.0352	0.1543	-0.0096	0.0295	-0.0622	0.1913
15	3.79	0.0	0.0438	-0.0009	0.0004	-0.0205	0.0090	0.1734	-0.0105	0.0353	-0.0608	0.2035
16	4.26	-0.01	0.0467	-0.0009	0.0014	-0.0193	0.0291	0.1978	-0.0117	0.0437	-0.0591	0.2210
17	4.73	-0.01	0.0462	-0.0012	0.0022	-0.0260	0.0475	0.2222	-0.0128	0.0521	-0.0578	0.2347
18	5.18	-0.01	0.0518	-0.0017	0.0042	-0.0328	0.0803	0.2485	-0.0137	0.0603	-0.0553	0.2427
19	5.63	-0.01	0.0558	-0.0017	0.0031	-0.0305	0.0554	0.2670	-0.0146	0.0681	-0.0547	0.2549
20	6.09	-0.01	0.0543	-0.0016	0.0059	-0.0304	0.1085	0.2892	-0.0154	0.0765	-0.0532	0.2644
21	6.55	-0.04	0.0542	-0.0018	0.0059	-0.0341	0.1081	0.3105	-0.0160	0.0854	-0.0515	0.2749
22	7.04	-0.02	0.0534	-0.0018	0.0073	-0.0346	0.1366	0.3252	-0.0164	0.0926	-0.0504	0.2846
23	7.48	-0.04	0.0539	-0.0018	0.0060	-0.0343	0.1106	0.3494	-0.0166	0.1006	-0.0475	0.2880
24	7.92	-0.01	0.0564	-0.0022	0.0069	-0.0399	0.1222	0.3697	-0.0166	0.1095	-0.0450	0.2962
25	8.35	-0.02	0.0617	-0.0021	0.0096	-0.0340	0.1549	0.4012	-0.0165	0.1186	-0.0412	0.2956
26	8.78	-0.01	0.0620	-0.0021	0.0085	-0.0339	0.1429	0.4296	-0.0170	0.1272	-0.0396	0.2960
27	9.20	-0.07	0.0561	-0.0016	0.0075	-0.0294	0.1336	0.4463	-0.0171	0.1343	-0.0383	0.3010
28	9.60	-0.01	0.0711	-0.0021	0.0104	-0.0295	0.1462	0.4699	-0.0173	0.1424	-0.0368	0.3030
29	10.04	-0.03	0.0514	-0.0012	0.0099	-0.0243	0.1931	0.4868	-0.0175	0.1479	-0.0359	0.3038
30	10.43	-0.03	0.0616	-0.0016	0.0094	-0.0260	0.1530	0.5111	-0.0177	0.1577	-0.0347	0.3086
31	10.86	-0.01	0.0641	-0.0018	0.0113	-0.0281	0.1756	0.5314	-0.0183	0.1626	-0.0345	0.3059
32	11.24	-0.01	0.0644	-0.0012	0.0112	-0.0166	0.1733	0.5439	-0.0184	0.1676	-0.0339	0.3082
33	11.64	-0.04	0.0575	-0.0012	0.0121	-0.0209	0.2097	0.5639	-0.0189	0.1735	-0.0336	0.3077
34	12.01	-0.03	0.0685	-0.0011	0.0108	-0.0161	0.1580	0.5650	-0.0189	0.1818	-0.0324	0.3108
35	12.37	-0.03	0.0614	-0.0012	0.0117	-0.0195	0.1899	0.5995	-0.0192	0.1871	-0.0320	0.3120
36	12.73	-0.02	0.0688	-0.0012	0.0108	-0.0174	0.1573	0.6211	-0.0194	0.1933	-0.0313	0.3112
37	13.09	-0.05	0.0686	-0.0016	0.0110	-0.0233	0.1597	0.6333	-0.0186	0.1977	-0.0294	0.3122
38	13.46	-0.04	0.0712	-0.0015	0.0126	-0.0211	0.1773	0.6604	-0.0191	0.2069	-0.0287	0.3106
39	13.83	-0.05	0.0739	-0.0012	0.0143	-0.0162	0.1938	0.6891	-0.0181	0.2159	-0.0263	0.3133
40	14.20	-0.06	0.0685	-0.0014	0.0175	-0.0212	0.2558	0.7065	-0.0175	0.2212	-0.0248	0.3131
41	14.53	-0.07	0.0684	-0.0017	0.0175	-0.0256	0.2557	0.7299	-0.0174	0.2297	-0.0238	0.3147
42	14.92	-0.05	0.0712	-0.0015	0.0185	-0.0218	0.2602	0.7494	-0.0173	0.2344	-0.0231	0.3128
43	15.27	-0.06	0.0730	-0.0015	0.0149	-0.0212	0.2044	0.7617	-0.0168	0.2382	-0.0220	0.3127
44	15.62	-0.05	0.0682	-0.0015	0.0174	-0.0227	0.2555	0.7805	-0.0167	0.2452	-0.0214	0.3141
45	15.95	-0.06	0.0852	-0.0011	0.0175	-0.0135	0.2053	0.8026	-0.0163	0.2527	-0.0203	0.3149
46	16.28	-0.05	0.0604	-0.0011	0.0196	-0.0190	0.3249	0.8233	-0.0157	0.2597	-0.0191	0.3154

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	56	1.01 1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	16.62	-0.06	0.0771	-0.0008	0.0138	-0.0104	0.1789	0.8414	-0.0156	0.2642	-0.0185	0.3140
48	16.96	-0.08	0.0770	-0.0011	0.0205	-0.0149	0.2657	0.8572	-0.0152	0.2688	-0.0178	0.3136
49	17.28	-0.09	0.0857	-0.0010	0.0168	-0.0122	0.1955	0.8755	-0.0153	0.2750	-0.0175	0.3141
50	17.60	-0.06	0.0971	-0.0015	0.0209	-0.0154	0.2148	0.8994	-0.0151	0.2810	-0.0168	0.3124
51	17.94	-0.07	0.0900	-0.0015	0.0217	-0.0167	0.2410	0.9156	-0.0147	0.2860	-0.0161	0.3124
52	18.29	-0.07	0.0917	-0.0011	0.0189	-0.0120	0.2056	0.9347	-0.0149	0.2917	-0.0160	0.3120
53	18.61	-0.07	0.0936	-0.0011	0.0220	-0.0118	0.2349	0.9575	-0.0150	0.2964	-0.0157	0.3095
54	18.95	-0.08	0.0975	-0.0011	0.0209	-0.0113	0.2142	0.9744	-0.0148	0.3004	-0.0152	0.3083
55	19.28	-0.07	0.0795	-0.0014	0.0230	-0.0176	0.2892	0.9885	-0.0142	0.3065	-0.0144	0.3101
56	19.59	-0.07	0.0813	-0.0011	0.0202	-0.0141	0.2483	1.0062	-0.0142	0.3114	-0.0142	0.3095
57	19.93	-0.08	0.0899	-0.0007	0.0240	-0.0078	0.2665	1.0203	-0.0130	0.3177	-0.0127	0.3114
58	20.26	-0.07	0.1012	-0.0001	0.0226	-0.0010	0.2235	1.0409	-0.0126	0.3225	-0.0121	0.3098
59	20.61	-0.08	0.0942	-0.0006	0.0228	-0.0064	0.2419	1.0475	-0.0122	0.3243	-0.0116	0.3096
60	20.94	-0.08	0.0973	-0.0001	0.0238	-0.0010	0.2448	1.0641	-0.0120	0.3301	-0.0113	0.3102
61	21.27	-0.07	0.0988	0.0000	0.0277	0.0005	0.2806	1.0835	-0.0120	0.3337	-0.0111	0.3080
62	21.63	-0.08	0.1020	0.0004	0.0287	0.0004	0.2813	1.1040	-0.0122	0.3409	-0.0111	0.3088
63	21.96	-0.06	0.0992	0.0008	0.0276	0.0086	0.2788	1.1197	-0.0127	0.3434	-0.0114	0.3067
64	22.30	-0.07	0.1053	0.0004	0.0282	0.0043	0.2677	1.1255	-0.0138	0.3437	-0.0123	0.3054
65	22.62	-0.07	0.1074	0.0008	0.0305	0.0079	0.2839	1.1385	-0.0134	0.3458	-0.0118	0.3037
66	22.91	-0.06	0.1121	0.0009	0.0338	0.0080	0.3020	1.1496	-0.0127	0.3492	-0.0110	0.3037
67	23.25	-0.08	0.1197	0.0010	0.0315	0.0084	0.2630	1.1491	-0.0125	0.3492	-0.0109	0.3039
68	23.56	-0.09	0.1104	0.0012	0.0295	0.0113	0.2707	1.1497	-0.0126	0.3495	-0.0110	0.3040
69	23.88	-0.08	0.1187	0.0013	0.0335	0.0110	0.2827	1.1677	-0.0116	0.3531	-0.0099	0.3024
70	24.22	-0.08	0.1236	0.0019	0.0310	0.0154	0.2507	1.1798	-0.0102	0.3578	-0.0086	0.3033
71	24.53	-0.09	0.1092	0.0018	0.0326	0.0169	0.2984	1.1929	-0.0084	0.3667	-0.0071	0.3074
72	24.87	-0.09	0.1098	0.0023	0.0328	0.0209	0.2986	1.2071	-0.0070	0.3713	-0.0058	0.3076
73	25.15	-0.10	0.1103	0.0025	0.0328	0.0227	0.2979	1.2216	-0.0060	0.3770	-0.0049	0.3086
74	25.49	-0.09	0.1243	0.0026	0.0327	0.0209	0.2632	1.2265	-0.0056	0.3779	-0.0046	0.3081
75	25.79	-0.09	0.1286	0.0023	0.0308	0.0179	0.2399	1.2410	-0.0044	0.3821	-0.0036	0.3079
76	26.08	-0.08	0.1060	0.0014	0.0282	0.0137	0.2662	1.2585	-0.0032	0.3863	-0.0026	0.3070
77	26.41	-0.08	0.1326	0.0025	0.0305	0.0189	0.2299	1.2670	-0.0059	0.3856	-0.0047	0.3043
78	26.72	-0.09	0.1286	0.0029	0.0315	0.0225	0.2453	1.2867	-0.0065	0.3915	-0.0051	0.3043
79	27.03	-0.08	0.1286	0.0029	0.0308	0.0225	0.2399	1.2964	-0.0075	0.3915	-0.0058	0.3020
80	27.37	-0.09	0.1273	0.0026	0.0313	0.0204	0.2460	1.2942	-0.0075	0.3902	-0.0058	0.3015
81	27.68	-0.09	0.1207	0.0022	0.0291	0.0186	0.2413	1.3076	-0.0067	0.3940	-0.0051	0.3013
82	28.01	-0.10	0.1206	0.0024	0.0350	0.0199	0.2901	1.3157	-0.0058	0.3957	-0.0044	0.3008
83	28.31	-0.08	0.1351	0.0036	0.0331	0.0266	0.2451	1.3241	-0.0055	0.3981	-0.0042	0.3007
84	28.61	-0.09	0.1261	0.0025	0.0302	0.0202	0.2396	1.3292	-0.0043	0.3984	-0.0032	0.2997
85	28.91	-0.06	0.1259	0.0028	0.0308	0.0226	0.2450	1.3342	-0.0041	0.4024	-0.0031	0.3016
86	29.25	-0.11	0.1439	0.0040	0.0361	0.0278	0.2512	1.3502	-0.0027	0.4082	-0.0020	0.3023
87	29.55	-0.06	0.1319	0.0033	0.0336	0.0250	0.2551	1.3605	-0.0016	0.4120	-0.0012	0.3029
88	29.86	-0.11	0.1615	0.0053	0.0377	0.0331	0.2335	1.3681	-0.0038	0.4111	-0.0028	0.3005
89	30.17	-0.08	0.1454	0.0045	0.0363	0.0313	0.2500	1.3578	-0.0026	0.4124	-0.0019	0.3038

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	57	0.85	1.7	0.0	B2W2F12	16.750	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.78	-0.02	-0.5376	0.3007	0.0445	-0.0213	0.0230	0.1743	-0.5594	
2	-2.60	-0.01	-0.5278	0.3190	0.0695	-0.0093	0.0190	0.1819	-0.6044	
3	-1.98	-0.03	-0.3430	0.1942	0.0471	0.0091	0.0220	0.1778	-0.5662	
4	-1.36	-0.03	-0.2159	0.1262	0.1407	0.0220	0.0210	0.1797	-0.5848	
5	-0.79	-0.02	-0.1250	0.0950	0.0230	0.0058	0.0200	0.1829	-0.7600	
6	-0.28	-0.01	-0.0292	0.0659	0.0914	0.0270	0.0230	0.1879	-2.2562	
7	0.29	-0.01	0.0634	0.0862	0.0605	-0.0107	0.0290	0.1885	1.3603	
8	0.79	-0.02	0.1554	0.0644	0.0194	-0.0582	0.0200	0.1912	0.4147	
9	1.30	-0.01	0.2693	0.0210	0.0507	0.0040	0.0200	0.1928	0.0779	
10	1.85	-0.02	0.3690	-0.0226	0.0281	-0.0063	0.0280	0.1941	-0.0612	
11	2.31	-0.02	0.4810	-0.1025	0.0367	-0.0064	0.0230	0.1954	-0.2131	
12	2.81	-0.02	0.6077	-0.1829	0.0183	-0.0096	0.0230	0.1920	-0.3010	
13	3.28	-0.02	0.7429	-0.2772	0.0083	-0.0094	0.0240	0.1954	-0.3731	
14	3.77	-0.01	0.8517	-0.3935	0.0498	0.0263	0.0300	0.1918	-0.4620	
15	4.23	-0.02	0.9877	-0.5668	0.0397	-0.0126	0.0280	0.1874	-0.5739	
16	4.68	-0.04	1.1074	-0.6864	0.0648	0.0203	0.0290	0.1907	-0.6199	
17	5.16	-0.04	1.2358	-0.8253	0.0858	-0.0161	0.0280	0.1841	-0.6678	
18	5.60	-0.03	1.3451	-0.9303	0.1483	-0.0016	0.0210	0.1837	-0.6916	
19	6.07	-0.03	1.5200	-1.1541	0.1341	0.0403	0.0270	0.1793	-0.7593	
20	6.52	-0.03	1.6245	-1.2664	0.1033	0.0194	0.0250	0.1816	-0.7808	
21	6.96	-0.03	1.7506	-1.3799	0.0593	0.0090	0.0280	0.1710	-0.7883	
22	7.43	-0.03	1.8750	-1.5111	0.1245	-0.0363	0.0300	0.1756	-0.8059	
23	7.84	-0.03	2.0155	-1.6899	0.0771	0.0471	0.0300	0.1744	-0.8384	
24	8.29	-0.05	2.1533	-1.9108	0.0712	-0.0497	0.0300	0.1676	-0.8874	
25	8.72	-0.05	2.2787	-2.0393	0.0777	-0.0758	0.0270	0.1575	-0.8950	
26	9.14	-0.04	2.3855	-2.1968	0.1355	0.1337	0.0190	0.1600	-0.9209	
27	9.53	-0.03	2.5376	-2.4047	0.0445	0.0307	0.0330	0.1556	-0.9477	
28	9.95	-0.06	2.6820	-2.5930	0.0364	-0.0230	0.0290	0.1510	-0.9668	
29	10.35	-0.06	2.8210	-2.7896	-0.0174	-0.0346	0.0290	0.1480	-0.9889	
30	10.76	-0.06	2.9375	-2.8987	0.0739	-0.1104	0.0270	0.1451	-0.9868	
31	11.17	-0.06	3.1077	-3.1289	0.0532	-0.0745	0.0270	0.1443	-1.0068	
32	11.56	-0.07	3.1940	-3.2147	-0.0440	-0.0214	0.0330	0.1433	-1.0065	
33	11.93	-0.05	3.4005	-3.4938	0.0116	-0.0207	0.0340	0.1365	-1.0275	
34	12.29	-0.03	3.5126	-3.6579	0.0638	-0.0273	0.0280	0.1346	-1.0413	
35	12.64	-0.04	3.6527	-3.7980	0.0059	0.0247	0.0300	0.1307	-1.0398	
36	13.01	-0.03	3.7995	-4.0715	0.0864	0.0090	0.0340	0.1250	-1.0716	
37	13.35	-0.04	3.9189	-4.2076	0.0037	0.0798	0.0360	0.1249	-1.0737	
38	13.72	-0.05	3.9991	-4.3449	0.0409	0.0207	0.0160	0.1162	-1.0865	
39	14.08	-0.04	4.1108	-4.6372	0.0720	0.1402	-0.0050	0.1182	-1.1281	
40	14.41	-0.05	4.2385	-4.7921	0.0205	0.1173	-0.0070	0.1139	-1.1306	
41	14.78	-0.05	4.3812	-4.9859	0.0142	0.1131	-0.0030	0.1097	-1.1380	
42	15.16	-0.06	4.5478	-5.1931	0.0248	0.0233	-0.0080	0.1067	-1.1419	
43	15.49	-0.06	4.6483	-5.4497	-0.0360	0.0594	0.0290	0.1049	-1.1724	
44	15.78	-0.06	4.7537	-5.6133	0.0073	0.0898	0.0270	0.1081	-1.1808	
45	16.16	-0.05	4.9310	-5.8175	0.0199	0.1621	0.0260	0.1034	-1.1798	
46	16.49	-0.07	5.0718	-6.0757	-0.0216	0.1382	0.0330	0.0925	-1.1979	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	57	0.85	1.7	0.0	B2M2F12	16.750	0	0	0	0
										FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	16.85	-0.06	5.2242	-6.2530	-0.0090	0.1476	0.0300	0.0899	-1.1969	
48	17.12	-0.06	5.3217	-6.4055	0.0218	0.2484	0.0330	0.0861	-1.2044	
49	17.45	-0.06	5.4384	-6.5979	-0.0459	0.2332	0.0240	0.0784	-1.2132	
50	17.79	-0.07	5.5769	-6.7518	-0.0827	0.2198	0.0230	0.0698	-1.2107	
51	18.14	-0.06	5.6491	-6.9078	-0.0459	0.2152	0.0220	0.0647	-1.2228	
52	18.47	-0.06	5.8159	-7.0845	0.0099	0.2401	0.0190	0.0623	-1.2181	
53	18.83	-0.07	5.9574	-7.2515	-0.0249	0.2628	0.0200	0.0565	-1.2172	
54	19.14	-0.07	6.0449	-7.4140	-0.0847	0.2835	0.0360	0.0503	-1.2265	
55	19.44	-0.07	6.0563	-7.5915	-0.1522	0.4710	-0.0640	0.0590	-1.2536	
56	19.74	-0.07	6.1746	-7.7355	-0.1192	0.4148	-0.0610	0.0557	-1.2528	
57	20.09	-0.08	6.3368	-7.8936	-0.1934	0.4987	-0.0720	0.0494	-1.2457	
58	20.43	-0.05	6.4815	-8.1242	-0.0443	0.5519	-0.0850	0.0508	-1.2534	
59	20.76	-0.07	6.5398	-8.2399	-0.1437	0.4851	-0.0800	0.0546	-1.2600	
60	21.12	-0.06	6.6858	-8.4313	-0.0754	0.5275	-0.0770	0.0479	-1.2611	
61	21.43	-0.07	6.7975	-8.6446	-0.1168	0.4115	-0.0780	0.0466	-1.2717	
62	21.75	-0.07	6.9212	-8.7718	-0.1367	0.4783	-0.0920	0.0466	-1.2674	
63	22.03	-0.06	7.0132	-8.9586	-0.1162	0.5516	-0.0890	0.0430	-1.2774	
64	22.35	-0.08	7.1004	-9.1136	-0.0958	0.4281	-0.0630	0.0365	-1.2835	
65	22.66	-0.08	7.2023	-9.2563	-0.0856	0.3848	-0.0520	0.0295	-1.2852	
66	22.99	-0.08	7.2296	-9.0755	-0.0534	0.3467	-0.1050	0.0306	-1.2553	
67	23.28	-0.08	7.3497	-9.2428	-0.0553	0.4204	-0.1110	0.0239	-1.2576	
68	23.62	-0.07	7.4236	-9.2702	0.0274	0.3676	-0.1170	0.0114	-1.2487	
69	23.90	-0.07	7.5128	-9.3101	0.0482	0.2605	-0.0990	0.0045	-1.2392	
70	24.26	-0.08	7.6443	-9.4962	-0.0014	0.3479	-0.0970	-0.0076	-1.2423	
71	24.51	-0.08	7.7346	-9.5926	0.0173	0.3507	-0.0900	-0.0085	-1.2402	
72	24.86	-0.10	7.8414	-9.6961	-0.1028	0.2999	-0.1000	-0.0159	-1.2365	
73	25.13	-0.09	8.0136	-9.8611	-0.0589	0.2154	-0.1050	-0.0154	-1.2306	
74	25.43	-0.10	8.1200	-9.9472	-0.1234	0.3507	-0.1080	-0.0178	-1.2250	
75	25.77	-0.09	8.2472	-10.1043	-0.0753	0.3024	-0.1130	-0.0169	-1.2252	
76	26.01	-0.09	8.3899	-10.2241	-0.0624	0.3553	-0.1190	-0.0151	-1.2186	
77	26.35	-0.10	8.5325	-10.3337	-0.1163	0.2528	-0.1130	-0.0202	-1.2111	
78	26.63	-0.09	8.6573	-10.3514	-0.0656	0.3348	-0.1090	-0.0214	-1.1957	
79	26.93	-0.10	8.7627	-10.3210	-0.1230	0.3372	-0.1130	-0.0282	-1.1778	
80	27.25	-0.10	8.8753	-10.3897	-0.1558	0.3601	-0.1210	-0.0274	-1.1706	
81	27.56	-0.10	8.9673	-10.3765	-0.0389	0.3344	-0.1400	-0.0325	-1.1571	
82	27.87	-0.11	9.0895	-10.4196	-0.1362	0.2868	-0.1020	-0.0361	-1.1463	
83	28.15	-0.10	9.1803	-10.4317	-0.0799	0.3528	-0.1120	-0.0446	-1.1363	
84	28.47	-0.09	9.2744	-10.3975	-0.1457	0.4189	-0.1040	-0.0549	-1.1211	
85	28.77	-0.10	9.3506	-10.3082	-0.1058	0.2401	-0.1120	-0.0648	-1.1024	
86	29.08	-0.09	9.4555	-10.1590	0.0236	0.3139	-0.0990	-0.0656	-1.0744	
87	29.39	-0.12	9.5494	-10.2375	-0.1726	0.2336	-0.0930	-0.0809	-1.0721	
88	29.68	-0.11	9.6512	-10.2552	-0.1098	0.2067	-0.0980	-0.0895	-1.0626	

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SH-- 2

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	57	0.85	1.7	0.0	82W2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CH1	XC PF1	YC PF1	CNF2	CH2	CH2	XC PF2	YC PF2
1	-2.78	-0.02	-0.3839	0.0011	0.0796	-0.0030	-0.2074	-0.0471	0.0032	-0.0391	-0.0679	0.8300
2	-2.60	-0.01	-0.3802	0.0012	0.0792	-0.0033	-0.2082	-0.0767	0.0029	-0.0288	-0.0378	0.3749
3	-1.98	-0.03	-0.3839	0.0011	0.0796	-0.0030	-0.2074	-0.0226	0.0018	-0.0269	-0.0818	1.1916
4	-1.36	-0.03	-0.3893	0.0011	0.0802	-0.0030	-0.2061	-0.0106	0.0008	-0.0196	-0.0755	1.8521
5	-0.74	-0.02	-0.3730	0.0010	0.0784	-0.0028	-0.2101	-0.0016	0.0003	-0.0143	-0.1875	8.9582
6	-0.28	-0.01	-0.3819	0.0011	0.0794	-0.0030	-0.2079	0.0059	0.0	-0.0103	0.0	-1.7515
7	0.29	-0.01	-0.3837	0.0011	0.0796	-0.0030	-0.2074	0.0136	0.0	-0.0070	0.0	-0.5124
8	0.79	-0.02	-0.3728	0.0010	0.0783	-0.0027	-0.2101	0.0161	-0.0003	-0.0031	-0.0186	-0.1947
9	1.30	-0.01	-0.3728	0.0010	0.0783	-0.0027	-0.2101	0.0289	-0.0007	0.0008	-0.0259	0.0287
10	1.85	-0.02	-0.3782	0.0010	0.0789	-0.0026	-0.2087	0.0453	-0.0012	0.0041	-0.0276	0.0904
11	2.31	-0.02	-0.3783	0.0011	0.0790	-0.0029	-0.2088	0.0576	-0.0019	0.0104	-0.0338	0.1804
12	2.81	-0.02	-0.3819	0.0011	0.0794	-0.0030	-0.2079	0.0711	-0.0028	0.0191	-0.0394	0.2685
13	3.28	-0.02	-0.3783	0.0011	0.0790	-0.0029	-0.2088	0.0849	-0.0035	0.0265	-0.0412	0.3120
14	3.77	-0.01	-0.3837	0.0011	0.0796	-0.0030	-0.2088	0.1074	-0.0039	0.0330	-0.0363	0.3071
15	4.23	-0.02	-0.3783	0.0011	0.0790	-0.0029	-0.2088	0.1241	-0.0046	0.0427	-0.0371	0.3445
16	4.68	-0.04	-0.3819	0.0011	0.0794	-0.0030	-0.2079	0.1430	-0.0048	0.0499	-0.0339	0.3493
17	5.16	-0.04	-0.3801	0.0011	0.0792	-0.0030	-0.2083	0.1613	-0.0051	0.0597	-0.0319	0.3704
18	5.60	-0.03	-0.3892	0.0012	0.0802	-0.0032	-0.2060	0.1803	-0.0055	0.0666	-0.0305	0.3693
19	6.07	-0.03	-0.3801	0.0011	0.0792	-0.0029	-0.2083	0.1957	-0.0056	0.0742	-0.0289	0.3792
20	6.52	-0.03	-0.3801	0.0011	0.0792	-0.0030	-0.2083	0.2196	-0.0054	0.0818	-0.0248	0.3724
21	6.96	-0.03	-0.3965	0.0013	0.0810	-0.0034	-0.2044	0.2320	-0.0052	0.0871	-0.0224	0.3755
22	7.43	-0.03	-0.3892	0.0012	0.0802	-0.0032	-0.2060	0.2506	-0.0047	0.0954	-0.0188	0.3807
23	7.84	-0.03	-0.3837	0.0011	0.0796	-0.0030	-0.2074	0.2726	-0.0044	0.1038	-0.0163	0.3809
24	8.29	-0.05	-0.3782	0.0010	0.0789	-0.0026	-0.2087	0.2946	-0.0039	0.1117	-0.0134	0.3790
25	8.72	-0.05	-0.3800	0.0011	0.0791	-0.0029	-0.2082	0.3117	-0.0037	0.1190	-0.0120	0.3816
26	9.14	-0.04	-0.4019	0.0014	0.0816	-0.0035	-0.2031	0.3419	-0.0036	0.1294	-0.0105	0.3785
27	9.53	-0.03	-0.3727	0.0009	0.0784	-0.0025	-0.2102	0.3558	-0.0037	0.1361	-0.0105	0.3824
28	9.95	-0.06	-0.3709	0.0009	0.0782	-0.0026	-0.2107	0.3699	-0.0038	0.1423	-0.0104	0.3846
29	10.35	-0.06	-0.3673	0.0009	0.0778	-0.0024	-0.2117	0.3954	-0.0039	0.1506	-0.0099	0.3807
30	10.76	-0.06	-0.3910	0.0012	0.0804	-0.0032	-0.2055	0.4145	-0.0040	0.1574	-0.0096	0.3798
31	11.17	-0.06	-0.3837	0.0011	0.0796	-0.0030	-0.2074	0.4338	-0.0039	0.1631	-0.0091	0.3759
32	11.56	-0.07	-0.3782	0.0010	0.0789	-0.0026	-0.2087	0.4528	-0.0035	0.1695	-0.0077	0.3743
33	11.93	-0.05	-0.3655	0.0009	0.0776	-0.0025	-0.2122	0.4734	-0.0031	0.1771	-0.0067	0.3742
34	12.29	-0.03	-0.3728	0.0010	0.0783	-0.0027	-0.2101	0.4889	-0.0031	0.1845	-0.0064	0.3774
35	12.64	-0.04	-0.3655	0.0009	0.0776	-0.0025	-0.2122	0.5101	-0.0029	0.1891	-0.0058	0.3707
36	13.01	-0.03	-0.3600	0.0007	0.0769	-0.0021	-0.2136	0.5340	-0.0019	0.1968	-0.0036	0.3686
37	13.35	-0.04	-0.3618	0.0008	0.0771	-0.0022	-0.2131	0.5495	-0.0014	0.2039	-0.0026	0.3711
38	13.72	-0.05	-0.3600	0.0008	0.0769	-0.0022	-0.2136	0.5721	-0.0003	0.2094	-0.0006	0.3661
39	14.08	-0.04	-0.3231	0.0002	0.0727	-0.0006	-0.2250	0.5908	0.0001	0.2143	0.0003	0.3627
40	14.41	-0.05	-0.3157	0.0	0.0720	0.0	-0.2279	0.6065	0.0011	0.2199	0.0019	0.3626
41	14.78	-0.05	-0.3229	0.0002	0.0727	-0.0006	-0.2250	0.6273	0.0016	0.2244	0.0026	0.3578
42	15.16	-0.06	-0.2998	-0.0001	0.0702	0.0003	-0.2340	0.6444	0.0029	0.2293	0.0046	0.3559
43	15.49	-0.06	-0.3231	0.0002	0.0727	-0.0006	-0.2250	0.6771	0.0048	0.2397	0.0071	0.3540
44	15.78	-0.06	-0.2991	-0.0001	0.0700	0.0003	-0.2340	0.6890	0.0048	0.2438	0.0070	0.3538
45	16.16	-0.05	-0.3094	0.0	0.0711	0.0	-0.2296	0.7124	0.0055	0.2478	0.0077	0.3478
46	16.49	-0.07	-0.2986	-0.0001	0.0695	0.0005	-0.2339	0.7264	0.0064	0.2536	0.0089	0.3492

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			PACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			57		0.85		1.7	0.0	B2W2F12	16.750	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2			
47	16.85	-0.06	-0.3035	-0.0001	0.0704	0.0003	-0.2320	0.7427	0.0069	0.2592	0.0093	0.3490			
48	17.12	-0.06	-0.2781	-0.0005	0.0675	0.0018	-0.2426	0.7656	0.0089	0.2623	0.0117	0.3426			
49	17.45	-0.06	-0.2727	-0.0005	0.0665	0.0020	-0.2454	0.7793	0.0103	0.2671	0.0132	0.3427			
50	17.79	-0.07	-0.2778	-0.0005	0.0675	0.0018	-0.2429	0.7962	0.0121	0.2724	0.0152	0.3421			
51	18.14	-0.06	-0.2601	-0.0008	0.0655	0.0031	-0.2519	0.8172	0.0131	0.2739	0.0160	0.3352			
52	18.47	-0.06	-0.2674	-0.0006	0.0663	0.0024	-0.2479	0.8345	0.0140	0.2797	0.0168	0.3351			
53	18.83	-0.07	-0.2620	-0.0008	0.0657	0.0031	-0.2508	0.8494	0.0152	0.2837	0.0179	0.3340			
54	19.14	-0.07	-0.2428	-0.0011	0.0637	0.0045	-0.2623	0.8613	0.0160	0.2869	0.0186	0.3331			
55	19.44	-0.07	-0.2064	-0.0017	0.0596	0.0085	-0.2889	0.8826	0.0177	0.2905	0.0201	0.3291			
56	19.74	-0.07	-0.2319	-0.0013	0.0625	0.0058	-0.2696	0.8945	0.0184	0.2934	0.0206	0.3280			
57	20.09	-0.08	-0.1887	-0.0020	0.0577	0.0109	-0.3059	0.9124	0.0203	0.2965	0.0223	0.3250			
58	20.43	-0.05	-0.1596	-0.0025	0.0544	0.0157	-0.3410	0.9142	0.0217	0.3035	0.0238	0.3320			
59	20.76	-0.07	-0.1541	-0.0026	0.0538	0.0169	-0.3495	0.9430	0.0222	0.3051	0.0235	0.3236			
60	21.12	-0.06	-0.1340	-0.0030	0.0515	0.0224	-0.3847	0.9643	0.0241	0.3091	0.0250	0.3206			
61	21.43	-0.07	-0.1631	-0.0025	0.0548	0.0153	-0.3363	0.9870	0.0239	0.3136	0.0243	0.3197			
62	21.75	-0.07	-0.1174	-0.0032	0.0496	0.0273	-0.4223	1.0029	0.0248	0.3174	0.0248	0.3165			
63	22.03	-0.06	-0.0920	-0.0036	0.0467	0.0397	-0.5081	1.0271	0.0255	0.3244	0.0249	0.3158			
64	22.35	-0.08	-0.1335	-0.0029	0.0514	0.0221	-0.3851	1.0416	0.0256	0.3274	0.0246	0.3143			
65	22.66	-0.08	-0.1624	-0.0025	0.0546	0.0157	-0.3361	1.0611	0.0263	0.3319	0.0248	0.3128			
66	22.99	-0.08	-0.2051	-0.0030	0.0714	0.0146	-0.3484	1.0723	0.0279	0.3348	0.0260	0.3122			
67	23.28	-0.08	-0.1171	-0.0033	0.0496	0.0282	-0.4234	1.0840	0.0288	0.3357	0.0266	0.3097			
68	23.62	-0.07	-0.1228	-0.0032	0.0503	0.0261	-0.4095	1.0906	0.0309	0.3373	0.0283	0.3093			
69	23.90	-0.07	-0.1468	-0.0028	0.0531	0.0191	-0.3616	1.1047	0.0320	0.3400	0.0290	0.3078			
70	24.26	-0.08	-0.1105	-0.0034	0.0490	0.0308	-0.4433	1.1208	0.0336	0.3429	0.0300	0.3059			
71	24.51	-0.08	-0.1052	-0.0035	0.0484	0.0337	-0.4605	1.1314	0.0346	0.3463	0.0306	0.3061			
72	24.86	-0.10	-0.1162	-0.0034	0.0498	0.0297	-0.4284	1.1403	0.0351	0.3484	0.0308	0.3055			
73	25.13	-0.09	-0.1109	-0.0035	0.0492	0.0320	-0.4441	1.1722	0.0376	0.3539	0.0321	0.3019			
74	25.43	-0.10	-0.1166	-0.0034	0.0495	0.0296	-0.4284	1.1825	0.0377	0.3569	0.0319	0.3018			
75	25.77	-0.09	-0.0873	-0.0040	0.0467	0.0458	-0.5351	1.2000	0.0387	0.3617	0.0323	0.3014			
76	26.01	-0.09	-0.0799	-0.0042	0.0459	0.0526	-0.5742	1.2166	0.0396	0.3648	0.0326	0.2998			
77	26.35	-0.10	-0.0872	-0.0039	0.0466	0.0453	-0.5349	1.2287	0.0397	0.3672	0.0323	0.2989			
78	26.63	-0.09	-0.1106	-0.0035	0.0491	0.0321	-0.4444	1.2315	0.0400	0.3688	0.0325	0.2994			
79	26.93	-0.10	-0.1051	-0.0036	0.0485	0.0347	-0.4613	1.2433	0.0407	0.3697	0.0328	0.2973			
80	27.25	-0.10	-0.0815	-0.0039	0.0458	0.0485	-0.5625	1.2450	0.0425	0.3686	0.0341	0.2960			
81	27.56	-0.10	-0.0321	-0.0048	0.0403	0.1495	-1.2556	1.2372	0.0466	0.3626	0.0377	0.2931			
82	27.87	-0.11	-0.1414	-0.0030	0.0525	0.0212	-0.3712	1.2528	0.0441	0.3683	0.0352	0.2939			
83	28.15	-0.10	-0.0905	-0.0038	0.0467	0.0420	-0.5165	1.2439	0.0478	0.3624	0.0384	0.2917			
84	28.47	-0.09	-0.1542	-0.0028	0.0539	0.0182	-0.3497	1.2496	0.0475	0.3650	0.0380	0.2921			
85	28.77	-0.10	-0.1052	-0.0035	0.0484	0.0337	-0.4605	1.2441	0.0502	0.3591	0.0404	0.2886			
86	29.08	-0.09	-0.2151	-0.0019	0.0609	0.0091	-0.2832	1.2474	0.0489	0.3597	0.0392	0.2883			
87	29.39	-0.12	-0.2289	-0.0019	0.0627	0.0083	-0.2740	1.2565	0.0508	0.3626	0.0404	0.2886			
88	29.68	-0.11	-0.1283	-0.0032	0.0514	0.0253	-0.4010	1.2490	0.0526	0.3543	0.0421	0.2837			

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	57	0.85	1.7	0.0	B2M2F12	16.750	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.78	-0.02	0.0704	0.0014	-0.0121	0.0206	-0.1725	-0.0439	0.0040	-0.0294	-0.0922	0.6703
2	-2.60	-0.01	0.0898	0.0007	-0.0176	0.0078	-0.1957	-0.0508	0.0039	-0.0258	-0.0777	0.5084
3	-1.98	-0.03	0.0614	0.0014	-0.0111	0.0236	-0.1814	-0.0171	0.0024	-0.0186	-0.1432	1.0876
4	-1.36	-0.03	0.0703	0.0012	-0.0122	0.0171	-0.1732	-0.0004	0.0016	-0.0132	-3.9993	33.0832
5	-0.79	-0.02	0.0698	0.0012	-0.0112	0.0172	-0.1611	0.0146	0.0007	-0.0072	0.0479	-0.4956
6	-0.28	-0.01	0.0701	0.0008	-0.0120	0.0114	-0.1718	0.0213	0.0004	-0.0046	0.0188	-0.2161
7	0.29	-0.01	0.0651	0.0007	-0.0107	0.0108	-0.1645	0.0315	-0.0002	-0.0005	-0.0063	-0.0160
8	0.79	-0.02	0.0633	0.0007	-0.0072	0.0111	-0.1139	0.0451	-0.0008	0.0034	-0.0188	0.0760
9	1.30	-0.01	0.0681	0.0002	-0.0086	0.0029	-0.1264	0.0587	-0.0014	0.0069	-0.0247	0.1169
10	1.85	-0.02	0.0631	0.0002	-0.0072	0.0032	-0.1137	0.0794	-0.0027	0.0134	-0.0340	0.1682
11	2.31	-0.02	0.0676	0.0000	-0.0077	0.0007	-0.1135	0.0947	-0.0035	0.0191	-0.0370	0.2012
12	2.81	-0.02	0.0854	-0.0003	-0.0096	-0.0035	-0.1129	0.1146	-0.0043	0.0259	-0.0375	0.2259
13	3.28	-0.02	0.0804	-0.0004	-0.0083	-0.0050	-0.1034	0.1343	-0.0051	0.0340	-0.0380	0.2535
14	3.77	-0.01	0.0804	-0.0004	-0.0083	-0.0050	-0.1034	0.1574	-0.0059	0.0413	-0.0375	0.2627
15	4.23	-0.02	0.0746	-0.0004	-0.0051	-0.0054	-0.0689	0.1810	-0.0062	0.0513	-0.0345	0.2835
16	4.68	-0.04	0.0881	-0.0004	-0.0067	-0.0045	-0.0765	0.2034	-0.0065	0.0578	-0.0322	0.2841
17	5.16	-0.04	0.0746	-0.0003	-0.0051	-0.0040	-0.0689	0.2253	-0.0067	0.0665	-0.0297	0.2950
18	5.60	-0.03	0.0727	-0.0004	-0.0016	-0.0055	-0.0217	0.2444	-0.0069	0.0722	-0.0284	0.2956
19	6.07	-0.03	0.0863	-0.0003	-0.0031	-0.0041	-0.0364	0.2720	-0.0068	0.0826	-0.0250	0.3038
20	6.52	-0.03	0.0817	-0.0006	-0.0027	-0.0073	-0.0328	0.2885	-0.0066	0.0900	-0.0230	0.3121
21	6.96	-0.03	0.0851	-0.0010	-0.0013	-0.0117	-0.0158	0.3016	-0.0072	0.0952	-0.0240	0.3156
22	7.43	-0.03	0.0847	-0.0010	-0.0005	-0.0118	-0.0056	0.3251	-0.0066	0.1054	-0.0203	0.3243
23	7.84	-0.03	0.0898	-0.0010	-0.0037	-0.0143	-0.0524	0.3511	-0.0064	0.1143	-0.0182	0.3255
24	8.29	-0.05	0.0848	-0.0006	-0.0004	-0.0071	-0.0052	0.3733	-0.0059	0.1232	-0.0158	0.3300
25	8.72	-0.05	0.0828	-0.0009	0.0031	-0.0115	0.0373	0.3950	-0.0058	0.1291	-0.0147	0.3269
26	9.14	-0.04	0.0832	-0.0011	0.0022	-0.0132	0.0267	0.4118	-0.0056	0.1341	-0.0137	0.3257
27	9.53	-0.03	0.0829	-0.0007	0.0030	-0.0084	0.0365	0.4419	-0.0055	0.1477	-0.0126	0.3341
28	9.95	-0.06	0.0861	-0.0007	0.0052	-0.0081	0.0603	0.4626	-0.0050	0.1556	-0.0109	0.3362
29	10.35	-0.06	0.0907	-0.0003	0.0046	-0.0033	0.0510	0.4895	-0.0052	0.1617	-0.0107	0.3304
30	10.76	-0.06	0.0906	-0.0007	0.0047	-0.0077	0.0518	0.4984	-0.0052	0.1664	-0.0105	0.3338
31	11.17	-0.06	0.0941	-0.0008	0.0060	-0.0085	0.0633	0.5242	-0.0047	0.1724	-0.0091	0.3288
32	11.56	-0.07	0.0951	-0.0007	0.0042	-0.0074	0.0440	0.5404	-0.0047	0.1816	-0.0087	0.3360
33	11.93	-0.05	0.0969	-0.0005	0.0085	-0.0057	0.0917	0.5750	-0.0040	0.1910	-0.0070	0.3322
34	12.29	-0.03	0.1105	-0.0002	0.0074	-0.0023	0.0672	0.5936	-0.0040	0.1957	-0.0067	0.3297
35	12.64	-0.04	0.1033	-0.0003	0.0045	-0.0029	0.0476	0.6036	-0.0037	0.2013	-0.0062	0.3335
36	13.01	-0.03	0.0986	0.0003	0.0063	0.0035	0.0634	0.6346	-0.0028	0.2099	-0.0044	0.3307
37	13.35	-0.04	0.0835	-0.0003	0.0104	-0.0036	0.1246	0.6456	-0.0023	0.2166	-0.0036	0.3355
38	13.72	-0.05	0.0954	0.0002	0.0041	0.0021	0.0429	0.6625	-0.0012	0.2210	-0.0019	0.3337
39	14.08	-0.04	0.1059	-0.0001	0.0079	-0.0014	0.0745	0.6987	0.0011	0.2368	0.0016	0.3389
40	14.41	-0.05	0.0924	-0.0003	0.0094	-0.0032	0.1016	0.7130	0.0018	0.2410	0.0025	0.3380
41	14.78	-0.05	0.1013	-0.0002	0.0084	-0.0025	0.0825	0.7316	0.0023	0.2472	0.0031	0.3379
42	15.16	-0.06	0.1087	-0.0001	0.0109	-0.0009	0.1005	0.7467	0.0031	0.2538	0.0042	0.3399
43	15.49	-0.06	0.1007	0.0003	0.0101	0.0035	0.0998	0.7709	0.0037	0.2601	0.0048	0.3374
44	15.78	-0.06	0.1042	0.0003	0.0113	0.0034	0.1086	0.7930	0.0036	0.2667	0.0046	0.3364
45	16.16	-0.05	0.1054	0.0003	0.0086	0.0033	0.0818	0.8080	0.0036	0.2728	0.0045	0.3377
46	16.49	-0.07	0.1188	0.0003	0.0072	0.0029	0.0605	0.8342	0.0054	0.2803	0.0065	0.3360

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH KX10-6												
6 57 0.85 1.7 0.0 B2W2F12 16.750 0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCFF3	YCFF3	CNF4	CH4	CH4	XCFF4	YCFF4
47	16.85	-0.06	0.1052	0.0005	0.0087	0.0048	0.0823	0.8523	0.0057	0.2856	0.0067	0.3351
48	17.12	-0.06	0.1039	0.0005	0.0112	0.0048	0.1080	0.8691	0.0073	0.2938	0.0084	0.3380
49	17.45	-0.06	0.1052	0.0005	0.0087	0.0048	0.0823	0.8824	0.0092	0.2982	0.0104	0.3380
50	17.79	-0.07	0.1084	0.0008	0.0107	0.0078	0.0989	0.8940	0.0111	0.3023	0.0125	0.3381
51	18.14	-0.06	0.1166	0.0049	0.0115	0.0077	0.0982	0.9095	0.0116	0.3068	0.0127	0.3373
52	18.47	-0.06	0.1159	0.0014	0.0131	0.0121	0.1132	0.9235	0.0123	0.3112	0.0133	0.3370
53	18.83	-0.07	0.1268	0.0016	0.0087	0.0130	0.0682	0.9360	0.0142	0.3171	0.0152	0.3388
54	19.14	-0.07	0.1173	0.0017	0.0114	0.0149	0.0971	0.9519	0.0156	0.3211	0.0164	0.3373
55	19.44	-0.07	0.1089	0.0010	0.0108	0.0092	0.0991	0.9678	0.0181	0.3264	0.0187	0.3372
56	19.74	-0.07	0.1262	0.0014	0.0104	0.0111	0.0828	0.9789	0.0192	0.3298	0.0196	0.3369
57	20.09	-0.08	0.1174	0.0014	0.0115	0.0119	0.0981	0.9916	0.0209	0.3350	0.0211	0.3379
58	20.43	-0.05	0.1246	0.0014	0.0140	0.0112	0.1125	1.0223	0.0211	0.3405	0.0206	0.3330
59	20.76	-0.07	0.1201	0.0014	0.0145	0.0117	0.1209	1.0286	0.0207	0.3436	0.0202	0.3341
60	21.12	-0.06	0.1430	0.0023	0.0118	0.0161	0.0829	1.0559	0.0218	0.3509	0.0207	0.3324
61	21.43	-0.07	0.1345	0.0023	0.0123	0.0166	0.0892	1.0709	0.0220	0.3548	0.0206	0.3313
62	21.75	-0.07	0.1221	0.0027	0.0191	0.0221	0.1563	1.0840	0.0223	0.3608	0.0206	0.3328
63	22.03	-0.06	0.1428	0.0026	0.0118	0.0186	0.0825	1.1066	0.0233	0.3677	0.0210	0.3323
64	22.35	-0.08	0.1246	0.0026	0.0138	0.0213	0.1109	1.1144	0.0240	0.3688	0.0215	0.3310
65	22.66	-0.08	0.1320	0.0034	0.0163	0.0258	0.1234	1.1256	0.0254	0.3735	0.0226	0.3318
66	22.99	-0.08	0.1274	0.0030	0.0168	0.0239	0.1323	1.0889	0.0310	0.3634	0.0285	0.3338
67	23.26	-0.08	0.1401	0.0035	0.0171	0.0253	0.1219	1.0810	0.0332	0.3616	0.0307	0.3345
68	23.62	-0.07	0.1406	0.0042	0.0170	0.0298	0.1213	1.0775	0.0342	0.3584	0.0318	0.3327
69	23.90	-0.07	0.1465	0.0047	0.0230	0.0324	0.1571	1.0908	0.0344	0.3609	0.0315	0.3308
70	24.26	-0.08	0.1365	0.0039	0.0176	0.0289	0.1288	1.1056	0.0348	0.3635	0.0315	0.3288
71	24.51	-0.08	0.1453	0.0036	0.0175	0.0248	0.1206	1.1177	0.0346	0.3672	0.0310	0.3286
72	24.86	-0.10	0.1438	0.0042	0.0210	0.0295	0.1461	1.1267	0.0351	0.3706	0.0311	0.3290
73	25.13	-0.09	0.1494	0.0052	0.0196	0.0351	0.1311	1.1450	0.0357	0.3740	0.0312	0.3267
74	25.43	-0.10	0.1477	0.0047	0.0232	0.0322	0.1572	1.1589	0.0359	0.3792	0.0310	0.3272
75	25.77	-0.09	0.1495	0.0042	0.0197	0.0284	0.1319	1.1737	0.0359	0.3837	0.0306	0.3269
76	26.01	-0.09	0.1449	0.0042	0.0202	0.0293	0.1393	1.1821	0.0372	0.3884	0.0315	0.3286
77	26.35	-0.10	0.1633	0.0052	0.0181	0.0321	0.1109	1.1970	0.0375	0.3935	0.0314	0.3287
78	26.63	-0.09	0.1487	0.0043	0.0196	0.0292	0.1321	1.2051	0.0379	0.3938	0.0315	0.3267
79	26.93	-0.10	0.1619	0.0044	0.0189	0.0272	0.1170	1.2111	0.0390	0.3956	0.0322	0.3266
80	27.25	-0.10	0.1623	0.0043	0.0181	0.0268	0.1114	1.2227	0.0394	0.3988	0.0322	0.3262
81	27.56	-0.10	0.1619	0.0048	0.0188	0.0300	0.1164	1.2305	0.0393	0.4001	0.0320	0.3252
82	27.87	-0.11	0.1589	0.0044	0.0158	0.0280	0.0997	1.2381	0.0408	0.4030	0.0329	0.3255
83	28.15	-0.10	0.1625	0.0055	0.0179	0.0338	0.1104	1.2434	0.0410	0.4029	0.0330	0.3240
84	28.47	-0.09	0.1487	0.0048	0.0194	0.0326	0.1308	1.2429	0.0420	0.4013	0.0338	0.3229
85	28.77	-0.10	0.1611	0.0060	0.0215	0.0372	0.1333	1.2507	0.0417	0.4016	0.0334	0.3211
86	29.08	-0.09	0.1494	0.0052	0.0196	0.0351	0.1311	1.2276	0.0409	0.3979	0.0333	0.3160
87	29.39	-0.12	0.1711	0.0053	0.0206	0.0310	0.1205	1.2355	0.0409	0.3900	0.0331	0.3157
88	29.68	-0.11	0.1718	0.0061	0.0206	0.0355	0.1202	1.2435	0.0405	0.3945	0.0326	0.3173

PAGE

75

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PAVE	MACH	WJ10-6	PM1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	54	0.85	1.7	0.0	W21F12	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CM	CLM	CY	CLM	CLL	CAF	XCP		
1	-2.41	0.03	-0.6546	0.0482	0.0885	-0.0179	0.0160	0.2038	-0.0731		
2	-2.47	0.04	-0.4466	0.0254	0.1217	0.0866	0.0110	0.2063	-0.0425		
3	-1.87	0.02	-0.4066	-0.0056	0.1430	0.0068	0.0170	0.2092	0.0138		
4	-1.71	0.03	-0.3187	-0.0118	0.1351	0.0639	0.0190	0.2156	0.0371		
5	-0.72	0.02	-0.1606	-0.0082	0.1400	0.0130	0.0190	0.2190	0.0508		
6	-0.17	0.02	-0.0143	0.0010	0.1408	-0.0151	0.0170	0.2177	-0.0713		
7	0.34	0.01	0.0796	0.0376	0.0751	-0.0121	0.0120	0.2195	0.4719		
8	0.91	0.02	0.2070	0.0592	0.0877	-0.0188	0.0150	0.2192	0.2860		
9	1.44	0.02	0.4257	0.0676	0.1170	-0.0838	0.0150	0.2227	0.1881		
10	1.96	0.02	0.4669	0.0380	0.1044	-0.0043	0.0210	0.2228	0.0817		
11	2.47	0.02	0.5887	0.0037	0.1006	-0.0128	0.0250	0.2241	0.0063		
12	2.96	0.02	0.7445	-0.0254	0.1175	-0.0125	0.0190	0.2194	-0.0342		
13	3.44	0.01	0.8801	-0.0673	0.0146	-0.0364	0.0260	0.2214	-0.0764		
14	3.90	0.02	1.0002	-0.1364	0.1347	-0.0426	0.0230	0.2194	-0.1364		
15	4.38	0.02	1.1375	-0.2426	0.1061	0.0155	0.0230	0.2218	-0.2133		
16	4.83	0.02	1.2844	-0.3334	0.1310	-0.0144	0.0190	0.2237	-0.2556		
17	5.29	0.02	1.4539	-0.4547	0.1398	-0.0007	0.0270	0.2212	-0.3127		
18	5.76	0.01	1.6043	-0.6152	0.0657	-0.0110	0.0270	0.2139	-0.3823		
19	6.23	0.03	1.7971	-0.7271	0.1984	-0.0668	0.0270	0.2158	-0.4848		
20	6.71	0.02	1.9761	-0.8458	0.0453	-0.0434	0.0340	0.2105	-0.4731		
21	7.17	0.01	2.1098	-0.9430	0.0877	0.0142	0.0220	0.2095	-0.4470		
22	7.64	0.0	2.2946	-1.1177	0.0424	-0.0484	0.0270	0.2016	-0.4871		
23	8.07	0.01	2.4943	-1.2303	0.1007	-0.0450	0.0270	0.2012	-0.5128		
24	8.52	0.01	2.5407	-1.3062	0.0636	0.0130	0.0340	0.1980	-0.5377		
25	8.94	0.02	2.7162	-1.5080	0.1262	-0.0187	0.0290	0.1979	-0.5552		
26	9.36	0.02	2.8453	-1.6428	0.1516	-0.0202	0.0270	0.1896	-0.5447		
27	9.76	0.0	3.0372	-1.8274	0.0191	-0.0007	0.0270	0.1857	-0.6017		
28	10.20	0.02	3.2009	-2.0036	0.2043	-0.0238	0.0170	0.1912	-0.6259		
29	10.61	0.0	3.3678	-2.1732	0.0489	-0.0874	0.0210	0.1842	-0.6304		
30	11.05	0.01	3.5624	-2.3238	0.1114	-0.0210	0.0260	0.1879	-0.6523		
31	11.46	0.02	3.7422	-2.5684	0.1444	0.0113	0.0260	0.1908	-0.6863		
32	11.84	0.02	3.9462	-2.7320	0.1404	0.0323	0.0330	0.1942	-0.6923		
33	12.21	0.01	4.0412	-2.8360	0.0702	0.0067	0.0290	0.1911	-0.7018		
34	12.58	0.01	4.2240	-3.0219	0.0450	-0.0020	0.0360	0.1933	-0.7153		
35	12.97	0.02	4.4590	-3.1350	0.1236	-0.0040	0.0340	0.1890	-0.7192		
36	13.41	0.01	4.4978	-3.2933	0.0449	-0.0244	0.0410	0.1851	-0.7322		
37	13.67	0.02	4.6217	-3.3228	0.1681	0.0067	0.0350	0.1814	-0.7406		
38	14.03	0.01	4.8162	-3.5430	0.0442	-0.0044	0.0420	0.1701	-0.7460		
39	14.42	0.01	4.9142	-3.7712	0.0751	-0.0041	0.0370	0.1616	-0.7466		
40	14.78	0.0	5.0713	-3.9061	0.0268	0.0045	0.0310	0.1538	-0.7699		
41	15.09	0.03	5.0431	-4.0808	0.1694	0.1021	-0.0260	0.1538	-0.8012		
42	15.47	0.02	5.2739	-4.2139	0.0768	0.1065	-0.0260	0.1394	-0.7990		
43	15.82	0.0	5.4198	-4.4641	-0.0163	0.0818	-0.0260	0.1287	-0.8237		
44	16.16	0.0	5.5137	-4.6745	0.0115	0.0019	0.0240	0.1239	-0.8478		
45	16.49	0.01	5.6609	-4.8476	0.0731	0.1026	0.0310	0.1209	-0.8563		
46	16.85	0.02	5.8434	-5.0542	0.0983	0.1014	0.0150	0.1134	-0.8649		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST	PAWT	MACH	WT10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	5A	0.85	1.7	0.0	02W1F12	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.18	0.02	5.9451	-5.2386	0.0987	0.1008	0.0110	0.1079	-0.8753		
48	17.52	0.0	6.2121	-5.4473	0.0172	0.1049	0.0060	0.1029	-0.8769		
49	17.83	0.01	6.2977	-5.5982	0.0748	0.1433	0.0110	0.0961	-0.8889		
50	18.17	0.01	6.4555	-5.7751	0.0499	0.0991	0.0100	0.0913	-0.8946		
51	18.50	0.01	6.5871	-5.8854	0.0960	0.0286	0.0140	0.0876	-0.8935		
52	18.85	0.0	6.7072	-6.1325	0.0223	0.1008	0.0130	0.0867	-0.9062		
53	19.18	0.0	6.8700	-6.2334	0.0787	0.0718	0.0280	0.0812	-0.9073		
54	19.53	0.0	7.0222	-6.3555	0.0555	0.0213	0.0270	0.0724	-0.9065		
55	19.84	0.0	7.1275	-6.5023	0.0185	0.1281	0.0280	0.0758	-0.9124		
56	20.18	-0.01	7.2852	-6.6448	0.0438	0.1417	0.0130	0.0727	-0.9121		
57	20.52	-0.01	7.4277	-6.8003	-0.0263	0.2078	0.0170	0.0687	-0.9155		
58	20.86	-0.02	7.5250	-6.9415	-0.0383	0.1446	-0.0030	0.0642	-0.9225		
59	21.20	-0.03	7.6631	-7.0838	-0.1000	0.1690	-0.0120	0.0605	-0.9244		
60	21.52	-0.02	7.7666	-7.2617	-0.1123	0.2132	-0.0430	0.0564	-0.9350		
61	21.86	-0.01	7.8999	-7.4273	-0.0703	0.3174	-0.0840	0.0565	-0.9402		
62	22.17	-0.02	8.0278	-7.6553	-0.0168	0.1945	-0.0800	0.0622	-0.9536		
63	22.49	-0.01	8.1512	-7.7592	-0.0163	0.3158	-0.0900	0.0629	-0.9519		
64	22.78	-0.02	8.2300	-7.9445	-0.0128	0.2139	-0.0690	0.0586	-0.9653		
65	23.10	-0.01	8.3497	-8.1301	-0.0044	0.2411	-0.0800	0.0614	-0.9737		
66	23.40	-0.01	8.4371	-8.3354	-0.0052	0.2392	-0.0390	0.0595	-0.9879		
67	23.72	-0.04	8.5516	-8.5119	-0.1000	0.2340	-0.0250	0.0581	-0.9953		
68	24.02	-0.02	8.6721	-8.5672	-0.0708	0.2111	-0.0140	0.0521	-0.9871		
69	24.33	-0.02	8.8046	-8.7579	-0.0154	0.2988	-0.0400	0.0520	-0.9453		
70	24.69	-0.04	8.9754	-8.8741	-0.0659	0.2802	-0.0320	0.0451	-0.9887		
71	25.01	-0.03	9.0400	-8.8685	-0.0325	0.3285	-0.0520	0.0384	-0.9432		
72	25.30	-0.03	9.1591	-9.0502	-0.0614	0.3359	-0.0390	0.0294	-0.9881		
73	25.60	-0.03	9.2836	-9.1405	-0.0444	0.3041	-0.0570	0.0237	-0.9846		
74	25.90	-0.04	9.4042	-9.2403	-0.1222	0.3740	-0.0680	0.0186	-0.9879		
75	26.20	-0.04	9.5507	-9.4004	-0.1139	0.3714	-0.0520	0.0152	-0.9843		
76	26.51	-0.04	9.6744	-9.4313	-0.0967	0.3803	-0.0680	0.0041	-0.9745		
77	26.81	-0.04	9.7270	-9.4534	-0.0225	0.2366	-0.0700	0.0016	-0.9719		
78	27.09	-0.04	9.8924	-9.5074	-0.0427	0.2747	-0.0680	0.0032	-0.9647		
79	27.42	-0.04	10.0688	-9.6379	-0.0176	0.3056	-0.0590	-0.0061	-0.9572		
80	27.73	-0.05	10.1772	-9.6186	-0.0908	0.3231	-0.0690	-0.0084	-0.9451		
81	28.05	-0.04	10.3079	-9.4876	0.0175	0.1365	-0.0780	-0.0052	-0.9204		
82	28.34	-0.04	10.4334	-9.5945	0.0056	0.1581	-0.0920	-0.0155	-0.9196		
83	28.66	-0.04	10.5462	-9.5504	0.0478	0.0861	-0.1100	-0.0217	-0.9064		
84	28.95	-0.04	10.6404	-9.5623	0.0027	0.2092	-0.1030	-0.0266	-0.8945		
85	29.27	-0.04	10.8246	-9.5991	0.0483	0.0654	-0.1000	-0.0314	-0.8868		
86	29.59	-0.04	10.9691	-9.5754	0.0487	0.0478	-0.1060	-0.0325	-0.8729		
87	29.93	-0.04	11.1480	-9.6550	0.0614	-0.0040	-0.1010	-0.0465	-0.8661		
88	30.23	-0.04	11.2473	-9.6561	0.0489	-0.0115	-0.0620	-0.0459	-0.8585		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION													
6		5R 0.85 1.7		0.0 H2W1F12 15.400		0	0	0	0	FIXED			
POINT	ALPHA	HFA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2	
1	-2.41	0.03	0.0037	-0.0007	0.0004	-0.1842	0.2251	-0.0235	0.0013	-0.0248	-0.0553	1.2694	
2	-2.47	0.04	0.0008	-0.0006	0.0002	-0.0739	0.0264	-0.0230	0.0009	-0.0242	-0.0391	1.0504	
3	-1.87	0.02	0.0047	-0.0006	0.0014	-0.0690	0.1608	-0.0125	0.0002	-0.0183	-0.0200	1.4612	
4	-1.31	0.03	0.0007	-0.0005	0.0020	-0.0632	0.2228	0.0019	0.0001	-0.0148	0.0526	-7.7720	
5	-0.12	0.02	0.0155	-0.0004	0.0015	-0.0290	0.0945	0.0113	0.0	-0.0116	0.0	-1.0296	
6	-0.17	0.02	0.0106	-0.0003	0.0028	-0.0243	0.2672	0.0156	0.0002	-0.0087	0.0160	-0.5578	
7	0.38	0.01	0.0142	-0.0002	0.0015	-0.0176	0.1079	0.0185	0.0006	-0.0068	0.0324	-0.3695	
8	0.41	0.02	0.0143	-0.0002	0.0015	-0.0140	0.1024	0.0214	0.0004	-0.0050	0.0374	-0.2322	
9	1.44	0.02	0.0110	-0.0001	0.0028	-0.0091	0.2514	0.0312	0.0004	-0.0031	0.0272	-0.0995	
10	1.96	0.02	0.0144	0.0	0.0027	0.0	0.1874	0.0386	0.0004	0.0018	0.0207	0.0456	
11	2.47	0.02	0.0146	0.0	0.0015	0.0	0.1003	0.0495	0.0005	0.0056	0.0101	0.1130	
12	2.96	0.02	0.0111	0.0	0.0027	0.0	0.2431	0.0585	0.0000	0.0106	0.0009	0.1813	
13	3.44	0.01	0.0145	0.0	0.0026	0.0	0.1815	0.0697	-0.0002	0.0150	-0.0036	0.2156	
14	3.90	0.02	0.0173	0.0	0.0029	0.0	0.1519	0.0816	-0.0004	0.0227	-0.0098	0.2781	
15	4.38	0.02	0.0109	-0.0001	0.0028	-0.0092	0.2598	0.0955	-0.0015	0.0294	-0.0162	0.3081	
16	4.83	0.02	0.0242	0.0	0.0032	0.0	0.1307	0.1160	-0.0018	0.0360	-0.0159	0.3109	
17	5.29	0.02	0.0178	0.0	0.0022	0.0	0.1253	0.1319	-0.0022	0.0424	-0.0171	0.3218	
18	5.78	0.01	0.0158	-0.0001	0.0031	-0.0063	0.1940	0.1455	-0.0026	0.0499	-0.0182	0.3429	
19	6.23	0.03	0.0151	-0.0001	0.0034	-0.0071	0.2694	0.1714	-0.0032	0.0572	-0.0187	0.3338	
20	6.71	0.02	0.0138	-0.0003	0.0036	-0.0217	0.2609	0.1871	-0.0046	0.0632	-0.0192	0.3380	
21	7.17	0.01	0.0146	-0.0001	0.0048	-0.0080	0.2534	0.2026	-0.0037	0.0719	-0.0183	0.3549	
22	7.64	0.0	0.0170	-0.0004	0.0036	-0.0265	0.2097	0.2215	-0.0039	0.0794	-0.0178	0.3585	
23	8.07	0.01	0.0105	-0.0004	0.0029	-0.0426	0.2761	0.2338	-0.0040	0.0865	-0.0173	0.3700	
24	8.52	0.01	0.0242	-0.0001	0.0033	-0.0041	0.1349	0.2560	-0.0032	0.0936	-0.0127	0.3656	
25	8.94	0.02	0.0237	-0.0005	0.0046	-0.0215	0.1959	0.2763	-0.0035	0.1028	-0.0126	0.3719	
26	9.36	0.02	0.0139	-0.0004	0.0027	-0.0288	0.1965	0.2938	-0.0030	0.1092	-0.0102	0.3717	
27	9.76	0.0	0.0122	-0.0004	0.0027	-0.0328	0.2185	0.3208	-0.0026	0.1183	-0.0083	0.3687	
28	10.20	0.02	0.0137	-0.0004	0.0037	-0.0292	0.2675	0.3416	-0.0028	0.1250	-0.0083	0.3660	
29	10.61	0.0	0.0174	-0.0002	0.0035	-0.0115	0.2010	0.3621	-0.0025	0.1328	-0.0069	0.3666	
30	11.05	0.01	0.0122	-0.0003	0.0041	-0.0246	0.3332	0.3824	-0.0024	0.1417	-0.0064	0.3706	
31	11.46	0.02	0.0042	-0.0003	0.0019	-0.0326	0.2026	0.4073	-0.0025	0.1507	-0.0061	0.3700	
32	11.94	0.02	0.0040	-0.0001	0.0022	-0.0240	0.3665	0.4248	-0.0035	0.1588	-0.0084	0.3737	
33	12.21	0.01	0.0145	-0.0000	0.0014	-0.0034	0.0487	0.4372	-0.0035	0.1614	-0.0081	0.3691	
34	12.58	0.01	0.0145	0.0001	0.0026	0.0103	0.1757	0.4538	-0.0044	0.1690	-0.0098	0.3724	
35	12.97	0.02	0.0152	0.0005	0.0024	0.0362	0.1556	0.4679	-0.0045	0.1725	-0.0096	0.3687	
36	13.31	0.01	0.0031	0.0	0.0004	0.0	0.2887	0.4755	-0.0046	0.1781	-0.0097	0.3744	
37	13.67	0.02	0.0100	0.0004	0.0019	0.0400	0.1932	0.4912	-0.0042	0.1831	-0.0086	0.3727	
38	14.03	0.01	0.0048	0.0002	0.0025	0.0417	0.5207	0.5147	-0.0041	0.1876	-0.0080	0.3645	
39	14.42	0.01	-0.0001	-0.0001	-0.0000	0.0998	0.3332	0.5337	-0.0035	0.1926	-0.0066	0.3609	
40	14.78	0.0	0.0049	0.0001	0.0008	0.0204	0.1599	0.5445	-0.0032	0.1978	-0.0059	0.3631	
41	15.09	0.03	-0.0097	-0.0011	-0.0026	0.1185	0.2714	0.5574	-0.0026	0.2019	-0.0047	0.3623	
42	15.47	0.02	-0.0099	-0.0012	-0.0026	0.1262	0.2625	0.5784	-0.0023	0.2058	-0.0041	0.3559	
43	15.82	0.0	-0.0232	-0.0016	-0.0057	0.0711	0.2470	0.5968	-0.0009	0.2114	-0.0016	0.3578	
44	16.16	0.0	-0.0082	-0.0002	-0.0029	0.0305	0.3576	0.6275	0.0012	0.2241	0.0019	0.3571	
45	16.49	0.01	-0.0087	-0.0006	-0.0040	0.0640	0.4547	0.6481	0.0024	0.2302	0.0037	0.3553	
46	16.85	0.02	-0.0155	-0.0007	-0.0038	0.0452	0.2429	0.6677	0.0030	0.2352	0.0046	0.3522	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH			PH1 CONF		L		DELL DEL2		DEL3 DEL4		TRANSITION	
6 SR 0.45 1.7			0.0 0.20112		15.400		0 0		0 0		FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CHI	CHI	XCPF2	YCPF2
47	17.18	0.02	-0.0192	-0.0012	-0.0072	0.0651	0.3749	0.6876	0.0045	0.2388	0.0066	0.3675
48	17.52	0.0	-0.0242	-0.0017	-0.0053	0.0674	0.2102	0.7094	0.0053	0.2464	0.0075	0.3473
49	17.83	0.01	-0.0269	-0.0020	-0.0088	0.0743	0.3258	0.7231	0.0071	0.2503	0.0098	0.3462
50	18.17	0.01	-0.0257	-0.0021	-0.0075	0.0816	0.2904	0.7437	0.0080	0.2556	0.0108	0.3437
51	18.50	0.01	-0.0270	-0.0022	-0.0055	0.0846	0.2101	0.7564	0.0087	0.2594	0.0115	0.3430
52	18.85	0.0	-0.0210	-0.0023	-0.0062	0.1095	0.3285	0.7870	0.0099	0.2669	0.0126	0.3392
53	19.18	0.0	-0.0260	-0.0022	-0.0055	0.0865	0.2101	0.7490	0.0111	0.2680	0.0139	0.3355
54	19.53	0.0	-0.0208	-0.0021	-0.0069	0.1033	0.3332	0.8084	0.0118	0.2714	0.0146	0.3357
55	19.84	0.0	-0.0310	-0.0023	-0.0077	0.0758	0.2443	0.8276	0.0126	0.2754	0.0152	0.3327
56	20.18	-0.01	-0.0263	-0.0024	-0.0066	0.0912	0.2496	0.8401	0.0134	0.2801	0.0160	0.3335
57	20.52	-0.01	-0.0245	-0.0024	-0.0088	0.1017	0.3087	0.8561	0.0147	0.2843	0.0172	0.3320
58	20.86	-0.02	-0.0324	-0.0026	-0.0112	0.0808	0.3624	0.8701	0.0161	0.2875	0.0185	0.3305
59	21.20	-0.03	-0.0384	-0.0029	-0.0105	0.0768	0.2733	0.8878	0.0174	0.2895	0.0196	0.3261
60	21.52	-0.02	-0.0437	-0.0034	-0.0139	0.0789	0.3172	0.8984	0.0178	0.2934	0.0198	0.3265
61	21.86	-0.01	-0.0440	-0.0043	-0.0224	0.0623	0.3303	0.9224	0.0198	0.2985	0.0215	0.3235
62	22.17	-0.02	-0.0574	-0.0040	-0.0164	0.0705	0.3280	0.9370	0.0199	0.3044	0.0213	0.3249
63	22.49	-0.01	-0.0658	-0.0043	-0.0217	0.0653	0.3302	0.9619	0.0211	0.3081	0.0220	0.3203
64	22.78	-0.02	-0.0536	-0.0036	-0.0176	0.0672	0.3276	0.9767	0.0209	0.3137	0.0215	0.3213
65	23.10	-0.01	-0.0591	-0.0040	-0.0182	0.0645	0.3078	0.9902	0.0208	0.3172	0.0210	0.3203
66	23.40	-0.01	-0.0574	-0.0043	-0.0212	0.0749	0.3648	1.0073	0.0212	0.3223	0.0211	0.3199
67	23.72	-0.04	-0.0450	-0.0034	-0.0153	0.0767	0.3394	1.0204	0.0214	0.3272	0.0210	0.3205
68	24.02	-0.02	-0.0537	-0.0036	-0.0142	0.0680	0.2843	1.0291	0.0221	0.3270	0.0215	0.3178
69	24.33	-0.02	-0.0591	-0.0043	-0.0194	0.0736	0.3298	1.0495	0.0232	0.3318	0.0221	0.3162
70	24.64	-0.04	-0.0570	-0.0040	-0.0186	0.0710	0.3262	1.0675	0.0240	0.3350	0.0225	0.3138
71	25.01	-0.03	-0.0761	-0.0049	-0.0231	0.0650	0.3030	1.0739	0.0252	0.3359	0.0235	0.3128
72	25.30	-0.03	-0.0665	-0.0041	-0.0240	0.0624	0.3603	1.0900	0.0263	0.3400	0.0241	0.3119
73	25.60	-0.03	-0.0820	-0.0049	-0.0289	0.0604	0.3527	1.0982	0.0274	0.3410	0.0250	0.3105
74	25.90	-0.04	-0.0785	-0.0048	-0.0283	0.0611	0.3600	1.1109	0.0284	0.3452	0.0256	0.3107
75	26.20	-0.04	-0.0799	-0.0047	-0.0292	0.0588	0.3658	1.1304	0.0299	0.3464	0.0263	0.3043
76	26.51	-0.04	-0.0874	-0.0053	-0.0302	0.0606	0.3458	1.1478	0.0311	0.3498	0.0271	0.3047
77	26.81	-0.04	-0.0772	-0.0049	-0.0267	0.0635	0.3462	1.1510	0.0319	0.3507	0.0277	0.3047
78	27.09	-0.04	-0.0625	-0.0055	-0.0215	0.0888	0.3444	1.1678	0.0324	0.3542	0.0278	0.3033
79	27.42	-0.04	-0.0681	-0.0042	-0.0256	0.0617	0.3758	1.1793	0.0339	0.3553	0.0287	0.3013
80	27.73	-0.05	-0.0890	-0.0043	-0.0318	0.0493	0.3588	1.1887	0.0358	0.3587	0.0301	0.3018
81	28.05	-0.04	-0.0552	-0.0054	-0.0194	0.1078	0.3513	1.1993	0.0354	0.3607	0.0295	0.3008
82	28.36	-0.04	-0.0614	-0.0061	-0.0211	0.0987	0.3364	1.2090	0.0366	0.3629	0.0303	0.3001
83	28.66	-0.04	-0.0570	-0.0049	-0.0177	0.0854	0.3104	1.2157	0.0373	0.3644	0.0307	0.2989
84	28.95	-0.04	-0.0547	-0.0068	-0.0216	0.1147	0.3617	1.2261	0.0385	0.3658	0.0314	0.2983
85	29.27	-0.04	-0.0484	-0.0067	-0.0135	0.1380	0.2760	1.2420	0.0402	0.3686	0.0324	0.2967
86	29.59	-0.04	-0.0610	-0.0074	-0.0185	0.1221	0.3037	1.2530	0.0421	0.3701	0.0336	0.2954
87	29.93	-0.04	-0.0647	-0.0067	-0.0201	0.1035	0.3131	1.2655	0.0435	0.3699	0.0344	0.2923
88	30.23	-0.04	-0.0582	-0.0077	-0.0189	0.1331	0.3246	1.2706	0.0455	0.3688	0.0358	0.2902

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH W10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 SR 0.85 1.7 0.0 H241F12 15.400 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCMP3	YCMP3	CNF4	CH4	CH4	XCMP4	YCMP4
1	-2.41	0.03	0.0134	0.0010	-0.0007	0.0746	-0.0548	-0.0609	-0.0006	-0.0057	0.0099	0.0935
2	-2.47	0.04	-0.0014	0.0010	0.0034	-0.7142	-2.4525	-0.0524	-0.0011	-0.0035	0.0210	0.0660
3	-1.87	0.02	-0.0001	0.0010	0.0004	-9.9987	-8.6668	-0.0446	-0.0013	0.0012	0.0291	-0.0278
4	-1.31	0.03	0.0134	0.0010	-0.0007	0.0746	-0.0548	-0.0179	-0.0012	0.0013	0.0698	-0.0746
5	-0.72	0.02	0.0085	0.0010	0.0006	0.1176	0.0744	-0.0190	-0.0014	0.0055	0.0737	-0.2878
6	-0.17	0.02	-0.0014	0.0010	0.0034	-0.7142	-2.4525	-0.0150	-0.0011	0.0073	0.0767	-0.4868
7	0.36	0.01	0.0134	0.0010	-0.0007	0.0746	-0.0548	-0.0061	-0.0010	0.0079	0.1721	-1.2897
8	0.91	0.02	-0.0016	0.0006	0.0035	-0.4062	-2.1668	0.0024	-0.0011	0.0100	-0.4583	4.1465
9	1.44	0.02	0.0029	0.0005	0.0030	0.1774	1.0229	0.0014	-0.0011	0.0142	-0.7856	10.1189
10	1.98	0.02	-0.0016	0.0005	0.0035	-0.3124	-2.1668	0.0143	-0.0019	0.0175	-0.1328	1.2213
11	2.47	0.02	-0.0016	0.0005	0.0035	-0.3124	-2.1668	0.0263	-0.0024	0.0240	-0.0431	0.9117
12	2.96	0.02	0.0029	0.0005	0.0030	0.1774	1.0229	0.0413	-0.0032	0.0291	-0.0750	0.6727
13	3.44	0.01	0.0143	0.0004	0.0001	0.0219	0.0053	0.0462	-0.0041	0.0368	-0.0487	0.7964
14	3.90	0.02	0.0117	0.0000	0.0020	0.0043	0.1708	0.0728	-0.0046	0.0793	-0.0639	0.5393
15	4.38	0.02	0.0161	0.0000	0.0015	0.0031	0.0910	0.0841	-0.0052	0.0491	-0.0624	0.5841
16	4.83	0.02	0.0096	-0.0004	0.0055	-0.0469	0.5728	0.1008	-0.0056	0.0542	-0.0560	0.5376
17	5.29	0.02	0.0097	-0.0004	0.0055	-0.0464	0.5703	0.1309	-0.0061	0.0620	-0.0470	0.4738
18	5.78	0.01	0.0096	-0.0004	0.0056	-0.0469	0.5832	0.1471	-0.0067	0.0696	-0.0455	0.4733
19	6.23	0.03	0.0127	-0.0004	0.0054	-0.0247	0.2948	0.1822	-0.0068	0.0743	-0.0373	0.4079
20	6.71	0.02	0.0128	-0.0004	0.0077	-0.0751	0.5988	0.1889	-0.0072	0.0846	-0.0384	0.4481
21	7.17	0.01	0.0132	-0.0007	0.0068	-0.0530	0.5150	0.1974	-0.0077	0.0887	-0.0390	0.4497
22	7.64	0.0	0.0114	-0.0006	0.0103	-0.0570	0.4034	0.2318	-0.0073	0.0957	-0.0315	0.4130
23	8.07	0.01	0.0159	-0.0006	0.0098	-0.0409	0.6162	0.2521	-0.0072	0.1063	-0.0288	0.4217
24	8.57	0.01	0.0157	-0.0011	0.0098	-0.0732	0.6262	0.2690	-0.0074	0.1115	-0.0277	0.4146
25	8.94	0.02	0.0112	-0.0011	0.0104	-0.1027	0.9314	0.2902	-0.0076	0.1179	-0.0263	0.4062
26	9.36	0.02	0.0179	-0.0012	0.0138	-0.0648	0.7690	0.3236	-0.0069	0.1299	-0.0213	0.4015
27	9.76	0.0	0.0045	-0.0011	0.0156	-0.1353	1.8391	0.3537	-0.0070	0.1369	-0.0198	0.3869
28	10.20	0.02	0.0156	-0.0012	0.0182	-0.0801	1.1665	0.3748	-0.0071	0.1432	-0.0189	0.3820
29	10.61	0.0	0.0079	-0.0012	0.0166	-0.1542	2.1054	0.3915	-0.0073	0.1493	-0.0186	0.3812
30	11.05	0.01	0.0156	-0.0012	0.0182	-0.0801	1.1665	0.4168	-0.0073	0.1574	-0.0176	0.3776
31	11.46	0.02	0.0135	-0.0011	0.0195	-0.0809	1.4362	0.4545	-0.0068	0.1650	-0.0149	0.3591
32	11.84	0.02	0.0246	-0.0012	0.0174	-0.0420	0.6094	0.4735	-0.0067	0.1753	-0.0141	0.3702
33	12.21	0.01	0.0200	-0.0011	0.0175	-0.0550	0.8732	0.4836	-0.0069	0.1785	-0.0144	0.3692
34	12.58	0.01	0.0313	-0.0015	0.0195	-0.0527	0.6239	0.5175	-0.0072	0.1845	-0.0140	0.3566
35	12.97	0.02	0.0179	-0.0015	0.0210	-0.0866	1.1712	0.5272	-0.0070	0.1903	-0.0134	0.3609
36	13.31	0.01	0.0313	-0.0011	0.0193	-0.0767	0.6176	0.5417	-0.0071	0.1941	-0.0131	0.3657
37	13.67	0.02	0.0355	-0.0015	0.0188	-0.0437	0.5304	0.5654	-0.0071	0.2000	-0.0126	0.3534
38	14.03	0.01	0.0400	-0.0011	0.0182	-0.0287	0.4557	0.5706	-0.0064	0.2045	-0.0109	0.3463
39	14.42	0.01	0.0441	-0.0010	0.0204	-0.0232	0.4724	0.6149	-0.0064	0.2126	-0.0080	0.3457
40	14.78	0.0	0.0450	-0.0015	0.0197	-0.0444	0.5618	0.6140	-0.0066	0.2175	-0.0076	0.3547
41	15.09	0.03	0.0447	-0.0022	0.0194	-0.0668	0.6545	0.6561	-0.0075	0.2267	-0.0039	0.3456
42	15.47	0.02	0.0444	-0.0019	0.0206	-0.0552	0.5977	0.6710	-0.0019	0.2294	-0.0029	0.3409
43	15.82	0.0	0.0429	-0.0016	0.0265	-0.0385	0.6176	0.6889	-0.0008	0.2371	-0.0012	0.3442
44	16.16	0.0	0.0332	-0.0006	0.0240	-0.0196	0.7218	0.7021	-0.0003	0.2424	-0.0005	0.3453
45	16.49	0.01	0.0437	-0.0005	0.0205	-0.0126	0.4682	0.7310	0.0009	0.2478	0.0013	0.3390
46	16.85	0.02	0.0468	-0.0005	0.0228	-0.0107	0.4828	0.7477	0.0015	0.2538	0.0020	0.3395

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH NO. 1.7												
CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0 5A 0.85 1.7 0.0 B2W1F12 15.400 0 0 0 0 0 FIXED												
POINT	ALPHA	AFTA	CNF3	CH3	CH3	XCPR3	YCPR3	CNF4	CH4	CH4	XCPR4	YCPR4
47	17.18	0.07	0.0554	-0.0002	0.0225	-0.0045	0.4054	0.7686	0.0010	0.2595	0.0040	0.3376
48	17.52	0.0	0.0336	-0.0003	0.0242	-0.0049	0.7201	0.7920	0.0038	0.2662	0.0049	0.3361
49	17.83	0.01	0.0336	-0.0003	0.0241	-0.0049	0.7171	0.8120	0.0055	0.2716	0.0068	0.3344
50	18.17	0.01	0.0512	0.0001	0.0231	0.0020	0.4504	0.8489	0.0062	0.2726	0.0074	0.3211
51	18.50	0.01	0.0404	0.0001	0.0266	0.0024	0.6511	0.8466	0.0073	0.2808	0.0086	0.3317
52	18.85	0.0	0.0336	0.0001	0.0242	0.0030	0.7149	0.8721	0.0080	0.2857	0.0092	0.3276
53	19.18	0.0	0.0513	0.0002	0.0230	0.0049	0.4442	0.8945	0.0093	0.2865	0.0104	0.3207
54	19.53	0.0	0.0492	0.0001	0.0274	0.0152	0.5568	0.8969	0.0105	0.2933	0.0117	0.3270
55	19.84	0.0	0.0494	0.0006	0.0275	0.0121	0.5559	0.9085	0.0109	0.2965	0.0120	0.3264
56	20.18	-0.01	0.0435	0.0004	0.0314	0.0195	0.7217	0.9354	0.0117	0.2968	0.0126	0.3167
57	20.52	-0.01	0.0452	0.0012	0.0280	0.0276	0.4186	0.9444	0.0130	0.3018	0.0138	0.3196
58	20.86	-0.02	0.0522	0.0014	0.0313	0.0268	0.5995	0.9597	0.0150	0.3077	0.0157	0.3206
59	21.20	-0.03	0.0450	0.0007	0.0260	0.0167	0.6221	0.9688	0.0163	0.3110	0.0168	0.3210
60	21.52	-0.02	0.0633	0.0012	0.0260	0.0177	0.4106	0.9917	0.0176	0.3129	0.0178	0.3155
61	21.86	-0.01	0.0496	0.0007	0.0275	0.0151	0.5550	1.0129	0.0189	0.3168	0.0187	0.3128
62	22.17	-0.02	0.0705	0.0013	0.0285	0.0184	0.4041	1.0300	0.0189	0.3212	0.0183	0.3119
63	22.49	-0.01	0.0498	0.0012	0.0275	0.0251	0.5521	1.0517	0.0200	0.3234	0.0190	0.3075
64	22.78	-0.02	0.0572	0.0017	0.0300	0.0306	0.5238	1.0634	0.0210	0.3299	0.0198	0.3103
65	23.10	-0.01	0.0701	0.0018	0.0293	0.0257	0.4174	1.0865	0.0218	0.3341	0.0201	0.3075
66	23.40	-0.01	0.0568	0.0012	0.0299	0.0220	0.5269	1.1023	0.0225	0.3400	0.0204	0.3085
67	23.72	-0.04	0.0486	0.0021	0.0318	0.0313	0.4630	1.1258	0.0227	0.3424	0.0202	0.3042
68	24.02	-0.02	0.0551	0.0022	0.0333	0.0408	0.6036	1.1356	0.0235	0.3476	0.0207	0.3061
69	24.33	-0.02	0.0550	0.0014	0.0332	0.0345	0.6041	1.1658	0.0240	0.3493	0.0206	0.2996
70	24.69	-0.04	0.0778	0.0030	0.0305	0.0442	0.3923	1.1732	0.0244	0.3555	0.0208	0.3030
71	25.01	-0.03	0.0758	0.0027	0.0342	0.0356	0.4506	1.1857	0.0250	0.3588	0.0211	0.3026
72	25.30	-0.03	0.0687	0.0026	0.0316	0.0446	0.4599	1.1936	0.0263	0.3611	0.0221	0.3026
73	25.60	-0.03	0.0709	0.0038	0.0363	0.0536	0.5123	1.2014	0.0274	0.3648	0.0226	0.3037
74	25.90	-0.04	0.0722	0.0025	0.0329	0.0353	0.4551	1.2143	0.0279	0.3665	0.0230	0.3018
75	26.20	-0.04	0.0728	0.0039	0.0328	0.0536	0.4500	1.2271	0.0295	0.3701	0.0240	0.3016
76	26.51	-0.04	0.0732	0.0037	0.0319	0.0512	0.4357	1.2489	0.0303	0.3715	0.0243	0.2975
77	26.81	-0.04	0.0709	0.0038	0.0363	0.0536	0.5123	1.2533	0.0309	0.3710	0.0247	0.2960
78	27.09	-0.04	0.0847	0.0043	0.0348	0.0508	0.4111	1.2234	0.0371	0.3642	0.0303	0.2977
79	27.42	-0.04	0.0852	0.0046	0.0321	0.0539	0.3727	1.2847	0.0335	0.3777	0.0261	0.2940
80	27.73	-0.05	0.0932	0.0044	0.0346	0.0477	0.3718	1.2884	0.0344	0.3796	0.0267	0.2946
81	28.05	-0.04	0.1070	0.0051	0.0330	0.0477	0.3049	1.2448	0.0408	0.3666	0.0328	0.2945
82	28.34	-0.04	0.0935	0.0050	0.0346	0.0540	0.3706	1.2667	0.0419	0.3673	0.0331	0.2900
83	28.66	-0.04	0.1056	0.0051	0.0358	0.0483	0.3389	1.2665	0.0424	0.3673	0.0335	0.2900
84	28.95	-0.04	0.1114	0.0052	0.0326	0.0486	0.2920	1.2841	0.0440	0.3703	0.0343	0.2884
85	29.27	-0.04	0.1117	0.0056	0.0325	0.0501	0.2911	1.2914	0.0456	0.3708	0.0353	0.2870
86	29.59	-0.04	0.1061	0.0058	0.0346	0.0451	0.3360	1.2928	0.0455	0.3727	0.0352	0.2883
87	29.93	-0.04	0.1141	0.0052	0.0366	0.0460	0.3209	1.3126	0.0463	0.3746	0.0353	0.2854
88	30.23	-0.04	0.1118	0.0051	0.0326	0.0456	0.2921	1.3124	0.0471	0.3745	0.0359	0.2854

PAGE 1 OF 3

MANTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST PART MACH R10-6 PHI CONF L UEL1 UEL2 UEL3 DEL4 TRANSITION										
0 59 0.92 1.7 0.0 H2=1F12 15.400 0 0 0 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.43	0.06	-0.6730	0.0613	0.2662	0.0745	0.0290	0.2379	-0.0911	
2	-2.84	0.05	-0.7100	0.0571	0.1824	0.0096	0.0190	0.2379	-0.0805	
3	-2.83	0.04	-0.6341	0.0559	0.1277	0.0179	0.0190	0.2342	-0.0881	
4	-2.84	0.06	-0.6425	0.0266	0.2711	0.0055	0.0200	0.2326	-0.0385	
5	-2.77	0.03	-0.6362	0.0268	0.0531	-0.0353	0.0200	0.2365	-0.0421	
6	-2.12	0.02	-0.5103	-0.0034	0.1573	0.0158	0.0190	0.2428	0.0067	
7	-1.50	0.05	-0.3401	-0.0049	0.1724	0.0176	0.0210	0.2479	0.0143	
8	-0.91	0.04	-0.2000	-0.0250	0.1138	-0.0143	0.0210	0.2493	0.1750	
9	-0.39	0.05	-0.0426	-0.0004	0.1923	0.0318	0.0100	0.2609	0.0044	
10	0.14	0.04	0.0752	0.0277	0.1189	-0.0395	0.0150	0.2570	0.3686	
11	0.71	0.06	0.1703	0.0326	0.2376	0.0054	0.0110	0.2609	0.1913	
12	1.27	0.04	0.3316	0.0500	0.1489	0.0105	0.0150	0.2571	0.1498	
13	1.74	0.03	0.5117	0.0515	0.0901	-0.0171	0.0150	0.2626	0.1192	
14	2.30	0.04	0.5860	0.0315	0.1310	-0.0144	0.0180	0.2635	0.0537	
15	2.79	0.03	0.7170	-0.0259	0.1534	0.0102	0.0180	0.2625	-0.0362	
16	3.29	0.03	0.8346	-0.0322	0.1346	0.0116	0.0230	0.2587	-0.0384	
17	3.77	0.02	1.0020	-0.1189	0.0872	-0.0431	0.0230	0.2532	-0.1187	
18	4.26	0.02	1.1386	-0.2142	0.1316	-0.0202	0.0250	0.2572	-0.1881	
19	4.72	0.02	1.2726	-0.2769	0.1649	-0.0159	0.0300	0.2552	-0.2176	
20	5.19	0.02	1.4779	-0.4533	0.1573	-0.0411	0.0260	0.2567	-0.3067	
21	5.65	0.01	1.6378	-0.5921	0.0701	-0.0121	0.0210	0.2503	-0.3626	
22	6.14	0.0	1.8400	-0.7442	0.0041	0.0153	0.0340	0.2421	-0.4045	
23	6.61	0.02	2.0321	-0.9172	0.1003	0.0606	0.0210	0.2449	-0.4514	
24	7.08	0.01	2.2116	-1.0665	0.0639	0.0117	0.0260	0.2463	-0.4822	
25	7.54	0.01	2.3784	-1.2236	0.0437	-0.0532	0.0240	0.2416	-0.5144	
26	7.99	0.01	2.5169	-1.3149	0.1124	0.0146	0.0200	0.2381	-0.5244	
27	8.41	0.01	2.6718	-1.5637	0.1016	0.0328	0.0250	0.2324	-0.5853	
28	8.83	-0.01	2.8432	-1.6748	0.0651	0.0349	0.0340	0.2288	-0.5891	
29	9.22	-0.02	3.0111	-1.8964	0.0175	0.0165	0.0300	0.2278	-0.6306	
30	9.69	-0.02	3.2314	-2.1072	0.0438	-0.0163	0.0230	0.2244	-0.6521	
31	10.13	0.0	3.4451	-2.2374	0.1029	0.0369	0.0300	0.2249	-0.6674	
32	10.51	-0.01	3.6792	-2.4213	0.2322	0.0609	0.0240	0.2212	-0.6459	
33	10.94	0.01	3.6560	-2.6678	0.1034	-0.0028	0.0290	0.2206	-0.7297	
34	11.34	0.01	3.8310	-2.7927	0.0780	-0.0212	0.0240	0.2094	-0.7290	
35	11.77	0.01	3.9402	-2.7806	0.0430	0.0048	0.0240	0.2085	-0.7489	
36	12.14	0.02	4.1621	-3.1512	0.1082	-0.0045	0.0280	0.2039	-0.7571	
37	12.53	0.02	4.3137	-3.3070	0.1345	0.0627	0.0220	0.1999	-0.7656	
38	12.88	0.02	4.4809	-3.4336	0.1165	0.0069	0.0140	0.1957	-0.7663	
39	13.26	0.02	4.6190	-3.5900	0.0910	0.0516	0.0220	0.1925	-0.7772	
40	13.64	0.0	4.7616	-3.7074	0.0101	0.0049	0.0140	0.1897	-0.7781	
41	13.99	0.02	4.9415	-3.9374	0.0489	0.0625	0.0170	0.1857	-0.7968	
42	14.33	0.01	5.0835	-4.0941	0.0476	0.0644	0.0050	0.1788	-0.8118	
43	14.71	0.01	5.1896	-4.2614	0.0332	0.0325	0.0050	0.1773	-0.8212	
44	15.09	0.03	5.2592	-4.3893	0.1445	0.1477	-0.0190	0.1743	-0.8346	
45	15.45	0.02	5.4505	-4.6181	0.1229	0.1289	-0.0310	0.1773	-0.8473	
46	15.77	0.02	5.6881	-4.8237	0.1232	0.0845	-0.0320	0.1765	-0.8632	

PAGE 1 OF 3
SHEET 2 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	PA10-A	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	59	0.92	1.7	0.0	B2W1P12	15.400	0	0	0	0	FIXED
POINT	ALPHA	HETA	CN	CLM	CY	CLN	CLL	CAF	ACP		
47	16.11	0.01	5.7252	-4.9726	0.0676	0.0664	-0.0090	0.1697	-0.8486		
48	16.46	0.02	5.8171	-5.1974	0.0930	0.1128	0.0300	0.1653	-0.8935		
49	16.76	0.02	5.9452	-4.3447	0.1486	0.0210	0.0250	0.1634	-0.8460		
50	17.14	-0.02	6.1327	-5.5442	-0.0280	0.1542	0.0310	0.1636	-0.9040		
51	17.44	-0.01	6.2462	-5.7260	0.0422	0.1129	0.0180	0.1571	-0.9109		
52	17.81	-0.01	6.3949	-5.9142	0.0238	0.1447	0.0130	0.1527	-0.9247		
53	18.14	-0.02	6.5708	-6.0376	-0.0527	0.2367	0.0020	0.1411	-0.9188		
54	18.49	-0.02	6.7176	-6.2301	-0.0638	0.1933	-0.0030	0.1379	-0.9274		
55	18.91	-0.02	6.8410	-6.3788	-0.0344	0.1471	0.0020	0.1274	-0.9324		
56	19.16	-0.01	7.0318	-6.6019	-0.0379	0.2110	-0.0050	0.1225	-0.9389		
57	19.48	-0.02	7.1228	-6.7253	-0.0747	0.1486	-0.0080	0.1113	-0.9442		
58	19.82	-0.01	7.2412	-6.9192	-0.0010	0.1454	0.0030	0.1139	-0.9490		
59	20.15	-0.02	7.3457	-7.0605	-0.0600	0.2110	-0.0050	0.1135	-0.9547		
60	20.49	-0.01	7.4844	-7.1256	-0.0115	0.2531	-0.0150	0.1147	-0.9514		
61	20.83	-0.02	7.6646	-7.3679	-0.1000	0.1930	-0.0280	0.1132	-0.9413		
62	21.18	-0.01	7.7881	-7.5062	-0.0144	0.2704	-0.0360	0.1164	-0.9443		
63	21.52	-0.02	7.9889	-7.6519	-0.0639	0.1904	-0.0390	0.1169	-0.9578		
64	21.85	-0.02	8.0503	-7.8129	-0.0543	0.2140	-0.0390	0.1153	-0.9657		
65	22.19	-0.03	8.2554	-7.8963	-0.0936	0.1400	-0.0490	0.1101	-0.9461		
66	22.50	-0.02	8.3444	-8.0836	-0.0575	0.2435	-0.0350	0.1126	-0.9687		
67	22.82	-0.01	8.4608	-8.2046	-0.0386	0.3110	-0.0600	0.1091	-0.9697		
68	23.11	-0.02	8.6206	-8.3073	-0.0747	0.3125	-0.0550	0.1046	-0.9637		
69	23.45	-0.02	8.6436	-8.3815	-0.0856	0.3356	-0.0330	0.0922	-0.9641		
70	23.74	-0.02	8.7432	-8.4839	-0.0525	0.3045	-0.0660	0.0884	-0.9703		
71	24.04	-0.02	8.9339	-8.6300	0.0027	0.3082	-0.0770	0.0770	-0.9660		
72	24.39	-0.04	8.9921	-8.7305	-0.0666	0.2672	-0.0710	0.0691	-0.9709		
73	24.71	-0.02	9.1713	-8.8023	-0.0244	0.3731	-0.0930	0.0633	-0.9598		
74	25.04	-0.02	9.3178	-8.9004	-0.0036	0.2889	-0.0710	0.0532	-0.9452		
75	25.35	-0.03	9.4088	-8.9518	0.0003	0.2705	-0.0760	0.0547	-0.9514		
76	25.65	-0.04	9.4971	-9.0044	-0.0796	0.2874	-0.0920	0.0456	-0.9481		
77	25.97	-0.04	9.6468	-9.1373	-0.1265	0.3141	-0.0930	0.0410	-0.9425		
78	26.25	-0.03	9.7944	-9.1784	-0.0350	0.3350	-0.0870	0.0375	-0.9367		
79	26.56	-0.04	9.9248	-9.2224	-0.0419	0.2736	-0.0820	0.0299	-0.9289		
80	26.84	-0.04	10.0040	-9.2492	-0.0452	0.3552	-0.1020	0.0284	-0.9245		
81	27.17	-0.04	10.1897	-9.3782	-0.0446	0.2914	-0.0910	0.0242	-0.9204		
82	27.49	-0.03	10.3634	-9.2345	-0.0067	0.3553	-0.1170	0.0184	-0.8915		
83	27.80	-0.04	10.4411	-9.3173	-0.0544	0.2491	-0.0920	0.0147	-0.8924		
84	28.12	-0.04	10.5806	-9.3376	-0.0745	0.3972	-0.1260	0.0114	-0.8825		
85	28.43	-0.04	10.7556	-9.3746	-0.0573	0.2452	-0.1040	0.0092	-0.8716		
86	28.74	-0.04	10.8709	-9.3540	-0.0165	0.3131	-0.1310	0.0082	-0.8608		
87	29.07	-0.04	11.0455	-9.2804	-0.0378	0.2344	-0.1520	0.0058	-0.8402		
88	29.38	-0.04	11.2019	-9.2965	0.0207	0.2140	-0.1360	0.0045	-0.8299		
89	29.72	-0.03	11.3720	-9.2337	-0.0168	0.3603	-0.1590	0.0028	-0.8120		
90	30.06	-0.08	11.5847	-9.1545	-0.2007	0.0070	-0.1580	0.0013	-0.7902		
91	30.37	-0.01	11.6316	-9.1691	0.2249	0.1811	-0.1640	-0.0138	-0.7883		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART WACH WACH-6			PMI CONF		L		DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			59 0.52 1.7		0.0 42 11 12 15 400		0	0	0	0	FIXED	
POINT	ALPHA	MFT A	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	-2.43	0.06	0.0228	-0.0022	0.0024	-0.0985	0.1051	-0.0263	0.0013	-0.0403	-0.0513	1.1507
2	-2.84	0.05	0.0196	-0.0024	0.0017	-0.1774	0.0883	-0.0265	0.0010	-0.0291	-0.0346	1.0993
3	-2.83	0.04	0.0182	-0.0022	0.0022	-0.1736	0.1169	-0.0203	0.0010	-0.0296	-0.0517	1.4564
4	-2.84	0.06	0.0215	-0.0020	0.0024	-0.0430	0.1286	-0.0189	0.0009	-0.0249	-0.0503	1.5290
5	-2.77	0.03	0.0244	-0.0022	0.0014	-0.0901	0.0586	-0.0145	0.0010	-0.0285	-0.0690	1.9677
6	-2.12	0.02	0.0200	-0.0021	0.0020	-0.1050	0.0482	-0.0112	0.0002	-0.0276	-0.0179	2.0207
7	-1.50	0.05	0.0255	-0.0014	0.0016	-0.0469	0.0626	0.0043	-0.0003	-0.0174	-0.0414	-4.0389
8	-0.91	0.04	0.0260	-0.0011	0.0015	-0.0447	0.0563	0.0155	-0.0002	-0.0137	-0.0129	-0.8861
9	-0.39	0.05	0.0208	-0.0007	0.0005	-0.0361	0.0755	0.0178	-0.0001	-0.0106	-0.0094	-0.6050
10	0.19	0.04	0.0210	-0.0003	0.0010	-0.0130	0.0419	0.0218	0.0005	-0.0091	0.0279	-0.4191
11	0.71	0.06	0.0216	-0.0002	-0.0003	-0.0091	-0.0110	0.0274	0.0014	-0.0078	0.0529	-0.2836
12	1.27	0.04	0.0219	0.0	0.0013	0.0	0.0492	0.0324	0.0016	-0.0056	0.0486	-0.1713
13	1.78	0.03	0.0227	0.0002	0.0013	0.0090	0.0584	0.0382	0.0017	-0.0024	0.0445	-0.0621
14	2.30	0.04	0.0257	0.0005	0.0018	0.0233	0.0686	0.0495	0.0011	-0.0019	0.0232	0.0383
15	2.79	0.03	0.0251	0.0002	0.0015	0.0040	0.0583	0.0578	0.0011	0.0056	0.0199	0.0962
16	3.29	0.03	0.0269	0.0005	0.0015	0.0186	0.0544	0.0670	0.0009	0.0106	0.0134	0.1584
17	3.77	0.02	0.0243	0.0007	0.0025	0.0309	0.1028	0.0878	0.0001	0.0152	0.0018	0.1835
18	4.26	0.02	0.0285	0.0005	0.0015	0.0193	0.0525	0.0944	-0.0006	0.0273	-0.0063	0.2352
19	4.72	0.02	0.0285	0.0005	0.0030	0.0228	0.1051	0.1091	-0.0010	0.0270	-0.0092	0.2480
20	5.19	0.02	0.0224	0.0005	0.0027	0.0245	0.1189	0.1285	-0.0020	0.0354	-0.0156	0.2756
21	5.65	0.01	0.0253	0.0004	0.0018	0.0158	0.0723	0.1468	-0.0031	0.0423	-0.0215	0.2883
22	6.14	0.0	0.0236	0.0003	0.0026	0.0148	0.1086	0.1679	-0.0041	0.0504	-0.0247	0.3005
23	6.61	0.02	0.0247	0.0002	0.0044	0.0101	0.1814	0.1841	-0.0055	0.0608	-0.0299	0.3305
24	7.08	0.01	0.0233	0.0001	0.0027	0.0064	0.1143	0.2011	-0.0065	0.0668	-0.0323	0.3322
25	7.54	0.01	0.0230	0.0	0.0035	0.0	0.1506	0.2238	-0.0077	0.0761	-0.0344	0.3399
26	7.99	0.01	0.0206	-0.0001	0.0043	-0.0035	0.1514	0.2406	-0.0088	0.0836	-0.0368	0.3473
27	8.41	0.01	0.0246	-0.0000	0.0020	-0.0020	0.0812	0.2601	-0.0089	0.0916	-0.0344	0.3521
28	8.83	-0.01	0.0184	-0.0002	0.0024	-0.0109	0.1376	0.2800	-0.0092	0.0992	-0.0328	0.3543
29	9.28	-0.02	0.0229	-0.0002	0.0020	-0.0087	0.0887	0.3008	-0.0096	0.1074	-0.0319	0.3571
30	9.69	-0.02	0.0250	0.0002	0.0019	0.0080	0.0772	0.3243	-0.0093	0.1180	-0.0287	0.3637
31	10.13	0.0	0.0232	0.0001	0.0034	0.0043	0.1479	0.3425	-0.0095	0.1253	-0.0277	0.3659
32	10.51	-0.01	0.0215	-0.0002	0.0014	-0.0093	0.0614	0.3635	-0.0095	0.1337	-0.0261	0.3679
33	10.94	0.01	0.0141	-0.0001	0.0028	-0.0106	0.1417	0.3844	-0.0098	0.1439	-0.0248	0.3649
34	11.14	0.01	0.0178	-0.0005	0.0026	-0.0109	0.1478	0.4151	-0.0107	0.1513	-0.0247	0.3643
35	11.77	0.01	0.0180	-0.0005	0.0014	-0.0278	0.1054	0.4365	-0.0107	0.1544	-0.0245	0.3648
36	12.14	0.02	0.0185	-0.0001	0.0025	-0.0081	0.1312	0.4514	-0.0114	0.1662	-0.0254	0.3682
37	12.53	0.02	0.0151	-0.0004	0.0022	-0.0298	0.1478	0.4642	-0.0121	0.1718	-0.0261	0.3700
38	12.88	0.02	0.0135	-0.0006	0.0013	-0.0481	0.0962	0.4847	-0.0125	0.1775	-0.0258	0.3662
39	13.26	0.02	0.0106	-0.0005	0.0009	-0.0613	0.0879	0.4979	-0.0126	0.1830	-0.0254	0.3674
40	13.64	0.0	0.0178	-0.0007	0.0008	-0.0421	0.0467	0.5124	-0.0130	0.1878	-0.0255	0.3666
41	13.99	0.02	0.0123	-0.0015	-0.0001	-0.1260	-0.0082	0.5459	-0.0128	0.1965	-0.0235	0.3600
42	14.33	0.01	0.0135	-0.0009	-0.0014	-0.0667	-0.1038	0.5601	-0.0127	0.2013	-0.0227	0.3599
43	14.71	0.01	-0.0040	-0.0019	-0.0038	-0.1749	0.0582	0.5737	-0.0131	0.2066	-0.0228	0.3601
44	15.09	0.03	-0.0041	-0.0020	-0.0089	0.2469	1.0986	0.5925	-0.0131	0.2114	-0.0221	0.3568
45	15.45	0.02	-0.0219	-0.0024	-0.0111	0.1119	0.5067	0.6110	-0.0128	0.2181	-0.0209	0.3569
46	15.77	0.02	-0.0322	-0.0027	-0.0157	0.0854	0.4885	0.6244	-0.0123	0.2249	-0.0145	0.3574

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PLAN MACH W10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
59 0.92 1.7			0.0	0.2	1.2	15.400	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	16.11	0.01	-0.0257	-0.0021	-0.0115	0.0036	0.4461	0.6558	-0.0118	0.2309	-0.0181	0.3521
48	16.46	0.02	-0.0022	-0.0007	-0.0042	0.3608	1.9241	0.6770	-0.0101	0.2379	-0.0150	0.3514
49	16.78	0.02	0.0014	-0.0001	-0.0001	-0.0714	-0.0954	0.6930	-0.0107	0.2410	-0.0154	0.3478
50	17.14	-0.02	-0.0019	-0.0006	-0.0042	0.3157	2.2240	0.7112	-0.0090	0.2476	-0.0127	0.3481
51	17.48	-0.01	-0.0051	-0.0006	-0.0031	0.1274	0.6077	0.7254	-0.0084	0.2509	-0.0116	0.3459
52	17.81	-0.01	-0.0079	-0.0008	-0.0075	0.1076	0.9535	0.7503	-0.0065	0.2570	-0.0087	0.3425
53	18.14	-0.02	-0.0155	-0.0010	-0.0067	0.0645	0.4300	0.7584	-0.0060	0.2585	-0.0080	0.3409
54	18.49	-0.02	-0.0139	-0.0004	-0.0084	0.0683	0.6066	0.7879	-0.0050	0.2643	-0.0064	0.3372
55	18.81	-0.02	-0.0143	-0.0012	-0.0084	0.0874	0.5850	0.7492	-0.0041	0.2674	-0.0051	0.3346
56	19.16	-0.01	-0.0253	-0.0015	-0.0116	0.0570	0.4397	0.8238	-0.0030	0.2735	-0.0036	0.3320
57	19.48	-0.02	-0.0293	-0.0016	-0.0127	0.0546	0.4322	0.8401	-0.0013	0.2777	-0.0016	0.3306
58	19.82	-0.01	-0.0304	-0.0014	-0.0139	0.0477	0.4592	0.8576	-0.0018	0.2832	-0.0022	0.3302
59	20.15	-0.02	-0.0301	-0.0011	-0.0129	0.0382	0.4296	0.8747	-0.0010	0.2878	-0.0012	0.3290
60	20.49	-0.01	-0.0301	-0.0012	-0.0137	0.0415	0.4561	0.8865	-0.0002	0.2911	-0.0002	0.3284
61	20.83	-0.02	-0.0357	-0.0013	-0.0182	0.0378	0.5047	0.9118	0.0005	0.2969	0.0006	0.3256
62	21.18	-0.01	-0.0445	-0.0016	-0.0206	0.0359	0.4636	0.9292	0.0016	0.3010	0.0017	0.3240
63	21.52	-0.02	-0.0369	-0.0013	-0.0182	0.0352	0.4931	0.9458	0.0023	0.3054	0.0024	0.3229
64	21.85	-0.02	-0.0397	-0.0013	-0.0183	0.0327	0.4617	0.9584	0.0029	0.3090	0.0031	0.3223
65	22.19	-0.03	-0.0407	-0.0013	-0.0214	0.0319	0.5244	0.9732	0.0036	0.3126	0.0037	0.3212
66	22.50	-0.02	-0.0477	-0.0011	-0.0226	0.0241	0.4737	0.9948	0.0048	0.3174	0.0049	0.3190
67	22.82	-0.01	-0.0490	-0.0012	-0.0239	0.0245	0.4883	1.0076	0.0049	0.3216	0.0049	0.3191
68	23.11	-0.02	-0.0570	-0.0004	-0.0267	0.0167	0.4683	1.0234	0.0059	0.3250	0.0058	0.3176
69	23.45	-0.02	-0.0568	-0.0004	-0.0270	0.0167	0.4758	1.0383	0.0070	0.3284	0.0068	0.3150
70	23.74	-0.02	-0.0527	-0.0010	-0.0260	0.0199	0.4926	1.0522	0.0086	0.3290	0.0082	0.3127
71	24.09	-0.02	-0.0677	-0.0014	-0.0318	0.0216	0.4731	1.0677	0.0106	0.3330	0.0100	0.3119
72	24.39	-0.04	-0.0580	-0.0016	-0.0284	0.0284	0.4625	1.0764	0.0111	0.3348	0.0103	0.3109
73	24.71	-0.02	-0.0737	-0.0014	-0.0342	0.0258	0.4635	1.0978	0.0136	0.3380	0.0124	0.3079
74	25.04	-0.02	-0.0577	-0.0022	-0.0258	0.0390	0.4476	1.1063	0.0143	0.3408	0.0129	0.3081
75	25.35	-0.03	-0.0722	-0.0017	-0.0331	0.0242	0.4574	1.1172	0.0158	0.3449	0.0142	0.3078
76	25.65	-0.04	-0.0778	-0.0015	-0.0332	0.0199	0.4270	1.1227	0.0166	0.3441	0.0148	0.3065
77	25.97	-0.04	-0.0857	-0.0013	-0.0376	0.0152	0.4394	1.1426	0.0181	0.3488	0.0158	0.3053
78	26.25	-0.03	-0.0735	-0.0004	-0.0369	0.0129	0.5019	1.1496	0.0183	0.3501	0.0160	0.3045
79	26.56	-0.04	-0.0634	-0.0005	-0.0327	0.0103	0.5162	1.1639	0.0197	0.3519	0.0170	0.3024
80	26.84	-0.04	-0.0867	-0.0014	-0.0440	0.0167	0.5074	1.1714	0.0212	0.3533	0.0181	0.3016
81	27.17	-0.04	-0.0784	-0.0020	-0.0365	0.0262	0.4660	1.1794	0.0223	0.3550	0.0189	0.3004
82	27.49	-0.03	-0.0864	-0.0028	-0.0413	0.0110	0.4779	1.1906	0.0239	0.3562	0.0201	0.2992
83	27.80	-0.04	-0.0847	-0.0020	-0.0378	0.0143	0.5443	1.2000	0.0241	0.3589	0.0201	0.2991
84	28.12	-0.04	-0.0810	-0.0031	-0.0404	0.0281	0.5048	1.2134	0.0252	0.3606	0.0208	0.2971
85	28.44	-0.04	-0.0855	-0.0033	-0.0464	0.0592	0.4657	1.2186	0.0264	0.3617	0.0204	0.2964
86	28.74	-0.04	-0.0718	-0.0041	-0.0435	0.0578	0.4683	1.2270	0.0258	0.3644	0.0210	0.2970
87	29.07	-0.04	-0.0789	-0.0057	-0.0300	0.0722	0.3801	1.2412	0.0268	0.3649	0.0216	0.2960
88	29.38	-0.04	-0.0579	-0.0059	-0.0244	0.1019	0.4282	1.2573	0.0278	0.3693	0.0221	0.2938
89	29.72	-0.03	-0.0545	-0.0063	-0.0210	0.1165	0.3846	1.2665	0.0279	0.3715	0.0221	0.2933
90	30.06	-0.08	-0.0523	-0.0074	-0.0197	0.1248	0.3315	1.2773	0.0284	0.3722	0.0227	0.2914
91	30.37	-0.01	-0.0518	-0.0080	-0.0167	0.1554	0.3216	1.2856	0.0295	0.3735	0.0230	0.2905

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART NAME RATIO-6											PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 59 0.9g 1.7											0.0	0.2M12	15.400	0	0	0	0	FIXED
POINT	ALPHA	HTA	CONF3	CH3	CH3	XCPF3	YCPF3	CONF4	CH4	CH4	XCPF4	YCPF4						
1	-2.83	0.06	0.0209	0.0020	-0.0024	0.0937	-0.1165	-0.1093	-0.0001	0.0041	0.0014	-0.0373						
2	-2.84	0.05	0.0209	0.0021	-0.0024	0.1029	-0.1165	-0.0964	-0.0002	0.0033	0.0026	-0.0346						
3	-2.83	0.04	0.0209	0.0021	-0.0024	0.1029	-0.1165	-0.1010	-0.0005	0.0045	0.0054	-0.0450						
4	-2.84	0.04	0.0209	0.0021	-0.0024	0.1029	-0.1165	-0.1042	-0.0001	0.0047	0.0014	-0.0437						
5	-2.77	0.03	0.0211	0.0024	-0.0025	0.1161	-0.1170	-0.1013	-0.0002	0.0052	0.0025	-0.0518						
6	-2.12	0.02	0.0209	0.0021	-0.0024	0.1029	-0.1165	-0.0945	-0.0010	0.0102	0.0106	-0.1081						
7	-1.50	0.05	0.0209	0.0021	-0.0024	0.1005	-0.1165	-0.0787	-0.0012	0.0120	0.0152	-0.1522						
8	-0.91	0.04	0.0208	0.0020	-0.0024	0.0461	-0.1139	-0.0755	-0.0012	0.0151	0.0159	-0.2006						
9	-0.39	0.05	0.0249	0.0020	-0.0029	0.0403	-0.1166	-0.0601	-0.0010	0.0169	0.0175	-0.2808						
10	0.19	0.04	0.0408	0.0017	-0.0047	0.0417	-0.1153	-0.0691	-0.0005	0.0201	0.0072	-0.2905						
11	0.71	0.06	0.0407	0.0013	-0.0046	0.0332	-0.1140	-0.0531	-0.0006	0.0204	0.0122	-0.3843						
12	1.27	0.04	0.0405	0.0010	-0.0046	0.0259	-0.1137	-0.0453	-0.0010	0.0223	0.0221	-0.4924						
13	1.76	0.03	0.0401	0.0009	-0.0038	0.0237	-0.0957	-0.0422	-0.0010	0.0261	0.0249	-0.6194						
14	2.30	0.04	0.0399	0.0006	-0.0038	0.0150	-0.0954	-0.0308	-0.0017	0.0298	0.0568	-0.9687						
15	2.79	0.03	0.0387	0.0005	-0.0015	0.0129	-0.0389	-0.0157	-0.0022	0.0345	0.1433	-2.1954						
16	3.29	0.03	0.0384	0.0000	-0.0014	0.0013	-0.0366	0.0078	-0.0029	0.0373	-0.3781	4.7819						
17	3.77	0.02	0.0379	-0.0000	-0.0004	-0.0013	-0.0151	0.0063	-0.0038	0.0446	-0.6031	7.0793						
18	4.26	0.02	0.0365	-0.0007	0.0014	-0.0142	0.0483	0.0329	-0.0054	0.0529	-0.1661	1.6137						
19	4.72	0.02	0.0365	-0.0007	0.0014	-0.0142	0.0483	0.0480	-0.0065	0.0575	-0.1354	1.1978						
20	5.19	0.02	0.0440	-0.0007	0.0017	-0.0159	0.0378	0.0737	-0.0077	0.0686	-0.1051	0.9316						
21	5.65	0.01	0.0445	-0.0006	0.0004	-0.0124	0.0074	0.0921	-0.0094	0.0772	-0.1020	0.8381						
22	6.14	0.0	0.0380	-0.0007	0.0013	-0.0184	0.0312	0.1227	-0.0102	0.0843	-0.0835	0.6869						
23	6.61	0.02	0.0335	-0.0010	0.0030	-0.0253	0.0750	0.1413	-0.0120	0.0928	-0.0849	0.6566						
24	7.08	0.01	0.0339	-0.0010	0.0065	-0.0295	0.1416	0.1588	-0.0127	0.1041	-0.0800	0.6556						
25	7.54	0.01	0.0472	-0.0010	0.0028	-0.0212	0.0599	0.1946	-0.0138	0.1079	-0.0709	0.5547						
26	7.99	0.01	0.0378	-0.0014	0.0061	-0.0384	0.1613	0.2049	-0.0145	0.1161	-0.0708	0.5665						
27	8.41	0.01	0.0454	-0.0014	0.0059	-0.0319	0.1306	0.2385	-0.0144	0.1269	-0.0604	0.5324						
28	8.83	-0.01	0.0453	-0.0014	0.0060	-0.0319	0.1310	0.2698	-0.0142	0.1320	-0.0526	0.4893						
29	9.26	-0.02	0.0442	-0.0015	0.0083	-0.0351	0.1884	0.2868	-0.0146	0.1441	-0.0509	0.5023						
30	9.69	-0.02	0.0336	-0.0017	0.0140	-0.0521	0.4165	0.3244	-0.0144	0.1531	-0.0443	0.4714						
31	10.13	0.0	0.0448	-0.0020	0.0089	-0.0420	0.1816	0.3309	-0.0155	0.1624	-0.0468	0.4904						
32	10.51	-0.01	0.0316	-0.0017	0.0140	-0.0521	0.4165	0.3653	-0.0156	0.1703	-0.0427	0.4662						
33	10.94	0.01	0.0429	-0.0015	0.0107	-0.0350	0.2443	0.4039	-0.0162	0.1756	-0.0401	0.4347						
34	11.34	0.01	0.0432	-0.0017	0.0124	-0.0319	0.2336	0.4138	-0.0162	0.1835	-0.0393	0.4434						
35	11.77	0.01	0.0533	-0.0015	0.0124	-0.0281	0.2319	0.4357	-0.0159	0.1923	-0.0365	0.4413						
36	12.14	0.02	0.0538	-0.0015	0.0116	-0.0279	0.2161	0.4438	-0.0159	0.1972	-0.0343	0.4253						
37	12.53	0.02	0.0481	-0.0017	0.0177	-0.0471	0.2681	0.4480	-0.0161	0.2022	-0.0333	0.4187						
38	12.94	0.02	0.0422	-0.0015	0.0144	-0.0287	0.2834	0.4982	-0.0160	0.2070	-0.0322	0.4155						
39	13.28	0.02	0.0523	-0.0015	0.0144	-0.0287	0.2835	0.5177	-0.0161	0.2128	-0.0312	0.4110						
40	13.64	0.0	0.0454	-0.0014	0.0159	-0.0262	0.2863	0.5314	-0.0166	0.2178	-0.0312	0.4098						
41	14.09	0.02	0.0562	-0.0013	0.0143	-0.0240	0.2549	0.5585	-0.0167	0.2239	-0.0299	0.4009						
42	14.33	0.01	0.0524	-0.0010	0.0148	-0.0200	0.2417	0.5691	-0.0163	0.2297	-0.0286	0.4037						
43	14.71	0.01	0.0534	-0.0017	0.0165	-0.0286	0.3113	0.6168	-0.0165	0.2367	-0.0268	0.3838						
44	15.09	0.03	0.0592	-0.0021	0.0155	-0.0363	0.2623	0.6270	-0.0159	0.2440	-0.0254	0.3892						
45	15.45	0.02	0.0681	-0.0021	0.0204	-0.0308	0.2994	0.6707	-0.0149	0.2490	-0.0222	0.3712						
46	15.77	0.02	0.0672	-0.0023	0.0220	-0.0342	0.3273	0.6850	-0.0148	0.2572	-0.0217	0.3755						

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARLIN MISSILE TAILS EFFECTS DATA

TEST PART MACH 4X10-6			PHI CONF		L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 59 0.92 1.7			0.0 0.21F12		15.400	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH3	CH3	XCNF3	YCPF3	CNF4	CH4	CH4	XCNF4	YCPF4
47	16.11	0.01	0.0652	-0.0020	0.0185	-0.0107	0.2841	0.6864	-0.0149	0.2628	-0.0217	0.3829
48	16.46	0.02	0.0644	-0.0008	0.0208	-0.0132	0.3223	0.7367	-0.0127	0.2691	-0.0173	0.3652
49	16.76	0.02	0.0790	-0.0014	0.0213	-0.0177	0.2699	0.7432	-0.0125	0.2745	-0.0168	0.3694
50	17.14	-0.02	0.0594	-0.0013	0.0224	-0.0219	0.3837	0.7657	-0.0124	0.2818	-0.0163	0.3681
51	17.48	-0.01	0.0750	-0.0009	0.0217	-0.0177	0.2842	0.7826	-0.0113	0.2861	-0.0145	0.3655
52	17.81	-0.01	0.0674	-0.0009	0.0219	-0.0141	0.3243	0.8182	-0.0099	0.2899	-0.0121	0.3544
53	18.14	-0.02	0.0776	-0.0014	0.0237	-0.0180	0.3049	0.8326	-0.0088	0.2920	-0.0106	0.3507
54	18.49	-0.02	0.0796	-0.0008	0.0205	-0.0107	0.2578	0.8409	-0.0078	0.3015	-0.0093	0.3585
55	18.81	-0.02	0.0781	-0.0008	0.0237	-0.0109	0.3038	0.8613	-0.0060	0.3023	-0.0070	0.3510
56	19.16	-0.01	0.0864	-0.0005	0.0224	-0.0058	0.2638	0.8937	-0.0050	0.3085	-0.0056	0.3452
57	19.48	-0.02	0.0745	-0.0001	0.0241	-0.0070	0.3218	0.9124	-0.0033	0.3047	-0.0037	0.3384
58	19.82	-0.01	0.0853	-0.0002	0.0259	-0.0023	0.3034	0.9265	-0.0035	0.3156	-0.0038	0.3407
59	20.15	-0.02	0.0853	-0.0002	0.0259	-0.0023	0.3039	0.9374	-0.0030	0.3186	-0.0032	0.3397
60	20.49	-0.01	0.0862	-0.0001	0.0236	-0.0017	0.2741	0.9475	-0.0025	0.3217	-0.0026	0.3395
61	20.83	-0.02	0.0871	-0.0000	0.0255	-0.0006	0.2861	0.9625	-0.0013	0.3260	-0.0014	0.3408
62	21.18	-0.01	0.0726	-0.0001	0.0272	-0.0021	0.3745	0.9892	-0.0009	0.3304	-0.0009	0.3342
63	21.52	-0.02	0.0877	-0.0007	0.0276	-0.0086	0.3150	1.0116	-0.0001	0.3333	-0.0001	0.3295
64	21.85	-0.02	0.0914	-0.0005	0.0272	-0.0071	0.2971	1.0191	-0.0012	0.3382	-0.0012	0.3318
65	22.19	-0.03	0.0956	-0.0007	0.0258	-0.0078	0.2694	1.0268	-0.0026	0.3401	-0.0025	0.3313
66	22.50	-0.02	0.1021	-0.0012	0.0279	-0.0118	0.2735	1.0575	-0.0026	0.3457	-0.0025	0.3269
67	22.82	-0.01	0.0976	-0.0013	0.0291	-0.0138	0.2984	1.0914	-0.0026	0.3468	-0.0024	0.3177
68	23.11	-0.02	0.1083	-0.0013	0.0302	-0.0125	0.2787	1.0896	-0.0032	0.3540	-0.0029	0.3249
69	23.45	-0.02	0.0858	-0.0013	0.0297	-0.0151	0.3460	1.1014	-0.0038	0.3553	-0.0034	0.3226
70	23.74	-0.02	0.1043	-0.0019	0.0304	-0.0182	0.2920	1.1280	-0.0053	0.3585	-0.0047	0.3178
71	24.09	-0.02	0.1003	-0.0019	0.0309	-0.0149	0.3083	1.1425	-0.0059	0.3636	-0.0052	0.3184
72	24.34	-0.04	0.0977	-0.0024	0.0324	-0.0246	0.3252	1.1506	-0.0070	0.3638	-0.0061	0.3162
73	24.71	-0.02	0.1077	-0.0030	0.0323	-0.0274	0.2998	1.1629	-0.0084	0.3703	-0.0072	0.3184
74	25.04	-0.02	0.1065	-0.0030	0.0346	-0.0282	0.3248	1.1777	-0.0096	0.3735	-0.0081	0.3172
75	25.35	-0.03	0.1118	-0.0019	0.0311	-0.0170	0.2787	1.1788	-0.0096	0.3739	-0.0081	0.3172
76	25.65	-0.04	0.1106	-0.0024	0.0342	-0.0253	0.3097	1.1869	-0.0117	0.3755	-0.0099	0.3164
77	25.97	-0.04	0.1168	-0.0034	0.0298	-0.0295	0.2553	1.2017	-0.0133	0.3763	-0.0111	0.3132
78	26.25	-0.03	0.1124	-0.0031	0.0311	-0.0280	0.2772	1.2053	-0.0150	0.3806	-0.0124	0.3158
79	26.56	-0.04	0.1169	-0.0039	0.0307	-0.0334	0.2641	1.2114	-0.0173	0.3804	-0.0143	0.3140
80	26.84	-0.04	0.1174	-0.0039	0.0306	-0.0334	0.2622	1.2181	-0.0172	0.3820	-0.0141	0.3136
81	27.17	-0.04	0.1110	-0.0046	0.0327	-0.0351	0.2500	1.2404	-0.0190	0.3841	-0.0154	0.3097
82	27.49	-0.03	0.1355	-0.0046	0.0314	-0.0339	0.2321	1.2439	-0.0209	0.3861	-0.0168	0.3104
83	27.80	-0.04	0.1349	-0.0044	0.0322	-0.0326	0.2391	1.2429	-0.0217	0.3858	-0.0175	0.3104
84	28.12	-0.04	0.1368	-0.0050	0.0308	-0.0369	0.2250	1.2723	-0.0228	0.3866	-0.0179	0.3039
85	28.43	-0.04	0.1355	-0.0046	0.0314	-0.0339	0.2321	1.2620	-0.0271	0.3846	-0.0215	0.3048
86	28.74	-0.04	0.1461	-0.0053	0.0332	-0.0363	0.2271	1.2780	-0.0284	0.3827	-0.0222	0.2995
87	29.07	-0.04	0.1415	-0.0053	0.0343	-0.0374	0.2426	1.2750	-0.0301	0.3820	-0.0236	0.2997
88	29.38	-0.04	0.1461	-0.0054	0.0332	-0.0370	0.2271	1.2765	-0.0328	0.3797	-0.0257	0.2975
89	29.72	-0.03	0.1458	-0.0057	0.0330	-0.0381	0.2262	1.2717	-0.0342	0.3815	-0.0261	0.3000
90	30.06	-0.08	0.1516	-0.0066	0.0367	-0.0435	0.2422	1.2744	-0.0348	0.3800	-0.0273	0.2982
91	30.37	-0.01	0.1509	-0.0054	0.0367	-0.0358	0.2431	1.2723	-0.0352	0.3794	-0.0277	0.2982

PAGE 1 OF 3
SHEET 1 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

POINT	ALPHA	HPIA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	-2.84	0.0	-0.7244	0.1424	0.0595	-0.0133	0.0220	0.3335	-0.1954
2	-2.64	0.03	-0.6514	0.1026	0.2308	-0.0221	0.0310	0.1345	-0.1575
3	-2.03	0.02	-0.4421	0.0401	0.1637	-0.0425	0.0140	0.3442	-0.0906
4	-1.39	0.01	-0.2764	0.0480	0.1126	-0.0444	0.0230	0.3473	-0.1735
5	-0.82	0.03	-0.1763	0.0064	0.2224	-0.0045	0.0230	0.3515	-0.0347
6	-0.28	0.03	-0.0361	0.0064	0.2414	-0.1309	0.0230	0.3551	-0.1417
7	0.26	0.02	0.0719	0.0263	0.1414	-0.0190	0.0180	0.3545	0.3663
8	0.80	0.02	0.1935	0.0281	0.1462	-0.0747	0.0140	0.3570	0.1452
9	1.33	0.02	0.3647	0.0018	0.1761	-0.0545	0.0250	0.3660	0.0044
10	1.87	0.02	0.4315	-0.0042	0.1694	-0.0257	0.0250	0.3621	-0.0214
11	2.36	0.02	0.5962	-0.0544	0.1801	0.0279	0.0210	0.3547	-0.0486
12	2.47	0.01	0.7407	-0.1031	0.1323	-0.0752	0.0240	0.3544	-0.1392
13	3.35	0.01	0.4453	-0.1635	0.1633	0.0044	0.0240	0.3612	-0.1435
14	3.46	0.01	1.0472	-0.2602	0.2347	-0.1220	0.0240	0.3567	-0.2485
15	4.34	0.01	1.2527	-0.3750	0.2225	-0.0745	0.0210	0.3516	-0.2994
16	4.81	0.02	1.3571	-0.4382	0.2637	-0.0942	0.0270	0.3593	-0.3241
17	5.27	0.02	1.5339	-0.6167	0.2606	-0.0244	0.0270	0.3564	-0.4020
18	5.76	0.01	1.6874	-0.7065	0.2299	-0.1468	0.0420	0.3553	-0.4147
19	6.21	-0.03	1.9115	-0.8474	-0.0643	0.0744	0.0280	0.3467	-0.4645
20	6.69	-0.01	1.9416	-0.4445	0.0402	0.0707	0.0320	0.3444	-0.4994
21	7.15	0.03	2.1735	-1.1732	0.3269	-0.0057	0.0310	0.3482	-0.5398
22	7.63	0.01	2.3938	-1.3206	0.2246	-0.0444	0.0300	0.3409	-0.5517
23	8.06	0.02	2.5403	-1.4536	0.1475	-0.1045	0.0240	0.3347	-0.5727
24	8.52	0.03	2.6444	-1.6087	0.1430	0.0014	0.0320	0.3372	-0.5961
25	8.95	-0.03	2.8652	-1.7456	0.0542	-0.0189	0.0360	0.3336	-0.6267
26	9.36	0.0	3.0465	-1.9664	0.1471	0.0001	0.0310	0.3294	-0.6455
27	9.80	-0.02	3.1445	-2.0786	0.1301	0.0004	0.0360	0.3235	-0.6507
28	10.22	-0.01	3.3466	-2.2655	0.1927	-0.0031	0.0270	0.3222	-0.6770
29	10.62	-0.05	3.5171	-2.4533	0.0385	-0.0429	0.0240	0.3142	-0.6965
30	11.04	-0.02	3.6549	-2.5892	0.0345	0.0671	0.0410	0.3132	-0.7084
31	11.46	0.01	3.8241	-2.7231	0.1211	0.0045	0.0350	0.3114	-0.7112
32	11.85	0.02	3.9774	-2.9267	0.1317	-0.0024	0.0350	0.2988	-0.7358
33	12.24	0.0	4.1144	-2.9870	0.0360	-0.0214	0.0410	0.2942	-0.7224
34	12.61	0.02	4.3222	-3.1495	0.1444	0.0258	0.0370	0.2899	-0.7402
35	12.97	0.03	4.4704	-3.3460	0.2181	-0.0136	0.0350	0.2849	-0.7445
36	13.35	0.01	4.6177	-3.4912	0.0951	0.0619	0.0460	0.2843	-0.7560
37	13.70	0.01	4.7825	-3.6864	0.1331	-0.0545	0.0340	0.2803	-0.7709
38	14.04	0.02	4.9647	-3.8475	0.1405	0.1063	0.0360	0.2817	-0.7748
39	14.46	0.01	5.1205	-4.0182	0.1701	-0.0451	0.0450	0.2714	-0.7847
40	14.83	0.02	5.3150	-4.2154	0.1272	0.0514	0.0400	0.2687	-0.7931
41	15.20	0.02	5.4812	-4.3891	0.1516	-0.0132	0.0340	0.2637	-0.8008
42	15.51	-0.01	5.5706	-4.5562	0.0468	-0.0295	0.0390	0.2623	-0.8179
43	15.90	0.0	5.6954	-4.6539	0.1415	-0.0321	0.0410	0.2516	-0.8171
44	16.26	0.0	5.9599	-4.8423	0.1352	0.0147	0.0410	0.2446	-0.8209
45	16.61	-0.02	6.0223	-5.0437	0.0327	0.0242	0.0390	0.2431	-0.8375
46	16.95	-0.01	6.2618	-5.2280	0.0504	0.1054	0.0350	0.2337	-0.8346

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	NO.10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	60	0.9/ 1.7	0.0	M2.1/12	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	ACP	
47	17.25	0.0	6.3263	-5.4672	0.1397	0.0124	0.0330	0.2298	-0.8561	
48	17.61	0.0	6.5610	-5.6659	0.0337	0.0748	0.0390	0.2143	-0.8436	
49	17.95	-0.01	6.7227	-5.8823	0.0342	0.0981	0.0420	0.2199	-0.8750	
50	18.27	0.01	6.9155	-6.0712	0.1480	0.0508	0.0280	0.2145	-0.8779	
51	18.63	-0.02	7.0244	-6.2036	0.0350	-0.0060	0.0180	0.2029	-0.8832	
52	18.95	0.02	7.1506	-6.3857	0.0358	0.1919	-0.0200	0.1984	-0.8923	
53	19.26	-0.01	7.1826	-6.4701	0.0119	0.1743	-0.0300	0.1914	-0.9008	
54	19.63	-0.01	7.4360	-6.7309	0.0143	0.1970	-0.0340	0.1867	-0.9052	
55	19.96	0.0	7.6401	-6.9056	0.1054	0.1104	-0.0250	0.1834	-0.9039	
56	20.29	-0.03	7.7314	-7.0074	-0.0967	0.1724	-0.0270	0.1715	-0.9064	
57	20.63	0.0	7.8344	-7.1472	0.0679	0.2529	-0.0330	0.1691	-0.9118	
58	20.96	-0.02	7.8357	-7.0974	0.0131	0.2316	-0.0270	0.1596	-0.9058	
59	21.31	-0.03	8.0844	-7.3127	0.0031	0.2256	-0.0300	0.1644	-0.9090	
60	21.66	-0.01	8.2191	-7.4693	0.1301	0.0898	0.0040	0.1406	-0.9088	
61	22.01	-0.02	8.4550	-7.6215	0.0077	0.0719	-0.0120	0.1431	-0.9014	
62	22.33	-0.01	8.5130	-7.6987	0.0430	0.0738	-0.0260	0.1434	-0.9044	
63	22.65	0.0	8.6676	-7.8024	0.1517	0.0886	-0.0250	0.1343	-0.9002	
64	22.96	-0.02	8.7509	-7.8440	-0.0023	0.1652	-0.0270	0.1337	-0.8955	
65	23.28	-0.01	8.7749	-7.9424	0.0439	0.0675	-0.0510	0.1247	-0.9051	
66	23.61	-0.04	8.9939	-8.0721	-0.0289	0.1374	-0.0440	0.1199	-0.8970	
67	23.92	-0.03	9.1644	-8.0434	0.0226	0.2533	-0.0410	0.1170	-0.8832	
68	24.24	-0.02	9.2748	-8.2393	0.0711	0.1104	-0.0560	0.1095	-0.8884	
69	24.57	-0.04	9.3737	-8.2952	-0.0145	0.2673	-0.0560	0.1064	-0.8844	
70	24.87	-0.02	9.4454	-8.4321	-0.0693	0.2870	-0.0500	0.0994	-0.8880	
71	25.23	-0.03	9.6435	-8.4506	0.0512	0.0353	-0.0530	0.0948	-0.8763	
72	25.55	-0.05	9.9205	-8.4054	-0.0406	0.1588	-0.0780	0.1040	-0.8473	
73	25.86	-0.06	9.9504	-8.5223	-0.0984	0.1774	-0.0530	0.0839	-0.8556	
74	26.19	-0.02	10.1115	-8.5508	0.0556	0.1951	-0.0630	0.0897	-0.8457	
75	26.46	-0.05	10.2035	-8.5866	-0.1803	0.3814	-0.0660	0.0855	-0.8415	
76	26.81	-0.05	10.3545	-8.5887	-0.0740	0.3706	-0.0590	0.0918	-0.8291	
77	27.08	-0.02	10.5019	-8.6295	0.0325	0.3495	-0.0810	0.0915	-0.8217	
78	27.43	-0.04	10.7242	-8.5587	-0.1986	0.5230	-0.0770	0.0802	-0.7981	
79	27.76	-0.05	10.9079	-8.5184	-0.1641	0.3477	-0.0840	0.0765	-0.7810	
80	28.05	-0.04	10.9103	-8.6512	-0.1133	0.2566	-0.0780	0.0618	-0.7929	
81	28.38	-0.04	11.0597	-8.6134	-0.1057	0.3449	-0.1020	0.0618	-0.7788	
82	28.66	-0.04	11.1649	-8.6478	-0.1439	0.5364	-0.1100	0.0552	-0.7742	
83	28.98	-0.02	11.3257	-8.6299	0.0551	0.2358	-0.1310	0.0543	-0.7620	
84	29.29	-0.02	11.4778	-8.6524	0.0109	0.3187	-0.1150	0.0522	-0.7539	
85	29.63	-0.02	11.6670	-8.7447	0.0314	0.2773	-0.1340	0.0406	-0.7499	
86	29.95	-0.03	11.8179	-8.7200	-0.0696	0.3224	-0.1340	0.0442	-0.7379	
87	30.31	-0.02	12.1043	-8.6397	-0.0181	0.3923	-0.1460	0.0428	-0.7135	
88	30.62	-0.02	12.1453	-8.6815	-0.0107	0.3809	-0.1760	0.0257	-0.7119	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6			60	0.97	1.7	0.0	82W1F12	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2	
1	-2.44	0.0	0.0347	-0.0009	-0.0034	-0.0259	-0.1106	-0.0388	0.0031	-0.0332	-0.0812	0.8564	
2	-2.68	0.03	0.0410	-0.0010	-0.0021	-0.0256	-0.0527	-0.0296	0.0025	-0.0303	-0.0861	1.0224	
3	-2.83	0.06	0.0429	-0.0008	-0.0029	-0.0186	-0.0677	-0.0137	0.0008	-0.0214	-0.0644	1.6211	
4	-1.39	0.01	0.0391	-0.0006	-0.0032	-0.0143	-0.0811	-0.0041	0.0003	-0.0179	-0.0732	4.3576	
5	-0.82	0.03	0.0421	-0.0005	-0.0036	-0.0119	-0.0848	0.0032	0.0002	-0.0133	0.0625	-4.1668	
6	-0.28	0.03	0.0495	-0.0003	-0.0028	-0.0099	-0.0718	0.0110	0.0003	-0.0107	0.0273	-0.9759	
7	0.28	0.02	0.0423	-0.0003	-0.0036	-0.0083	-0.0442	0.0169	0.0007	-0.0090	0.0397	-0.4763	
8	0.80	0.02	0.0407	-0.0003	-0.0020	-0.0086	-0.0501	0.0222	0.0011	-0.0053	0.0518	-0.2389	
9	1.33	0.02	0.0423	-0.0002	-0.0024	-0.0059	-0.0569	0.0287	0.0012	-0.0030	0.0418	-0.1058	
10	1.87	0.02	0.0410	-0.0001	-0.0020	-0.0037	-0.0437	0.0377	0.0010	0.0009	0.0265	0.0229	
11	2.36	0.02	0.0425	0.0	-0.0013	0.0	-0.0315	0.0464	0.0002	0.0064	0.0043	0.1371	
12	2.87	0.01	0.0423	-0.0001	-0.0015	-0.0035	-0.0356	0.0626	-0.0002	0.0097	-0.0032	0.1543	
13	3.35	0.01	0.0424	0.0	-0.0004	0.0	-0.0088	0.0714	-0.0010	0.0153	-0.0147	0.2142	
14	3.86	0.01	0.0435	-0.0002	-0.0007	-0.0046	-0.0162	0.0939	-0.0022	0.0226	-0.0240	0.2406	
15	4.34	0.01	0.0451	-0.0001	-0.0010	-0.0022	-0.0216	0.1067	-0.0032	0.0292	-0.0305	0.2747	
16	4.81	0.02	0.0489	-0.0002	0.0001	-0.0041	0.0019	0.1235	-0.0043	0.0368	-0.0352	0.2984	
17	5.27	0.02	0.0490	-0.0002	-0.0014	-0.0051	-0.0280	0.1433	-0.0050	0.0433	-0.0352	0.3025	
18	5.76	0.01	0.0488	-0.0002	0.0001	-0.0051	0.0012	0.1674	-0.0063	0.0535	-0.0391	0.3295	
19	6.21	-0.03	0.0452	-0.0001	-0.0025	-0.0033	-0.0562	0.1792	-0.0073	0.0614	-0.0410	0.3427	
20	6.69	-0.01	0.0478	-0.0002	-0.0019	-0.0042	-0.0392	0.1921	-0.0081	0.0673	-0.0422	0.3504	
21	7.15	0.03	0.0407	-0.0003	-0.0013	-0.0074	-0.0329	0.2151	-0.0093	0.0780	-0.0432	0.3625	
22	7.63	0.01	0.0447	-0.0003	-0.0011	-0.0078	-0.0247	0.2321	-0.0099	0.0857	-0.0426	0.3694	
23	8.06	0.02	0.0477	-0.0002	-0.0019	-0.0052	-0.0400	0.2463	-0.0100	0.0919	-0.0408	0.3730	
24	8.52	0.03	0.0408	-0.0003	-0.0020	-0.0074	-0.0431	0.2648	-0.0105	0.1001	-0.0395	0.3765	
25	8.95	-0.03	0.0392	-0.0004	-0.0018	-0.0115	-0.0464	0.2806	-0.0111	0.1092	-0.0382	0.3759	
26	9.36	0.0	0.0490	-0.0005	-0.0011	-0.0125	-0.0282	0.3171	-0.0115	0.1177	-0.0364	0.3710	
27	9.80	-0.02	0.0390	-0.0004	-0.0002	-0.0115	-0.0042	0.3317	-0.0116	0.1243	-0.0350	0.3752	
28	10.22	-0.01	0.0419	-0.0003	-0.0002	-0.0072	-0.0057	0.3519	-0.0120	0.1334	-0.0341	0.3790	
29	10.62	-0.05	0.0394	-0.0003	-0.0004	-0.0076	-0.0230	0.3695	-0.0127	0.1391	-0.0344	0.3765	
30	11.04	-0.06	0.0352	-0.0002	-0.0007	-0.0071	-0.0191	0.3845	-0.0126	0.1470	-0.0329	0.3824	
31	11.46	0.01	0.0395	0.0	0.0005	0.0	0.0117	0.4061	-0.0134	0.1522	-0.0331	0.3748	
32	11.85	0.02	0.0345	0.0	0.0002	0.0	0.0065	0.4231	-0.0140	0.1592	-0.0332	0.3762	
33	12.24	0.0	0.0401	-0.0003	0.0003	0.0075	0.0065	0.4363	-0.0152	0.1647	-0.0348	0.3774	
34	12.61	0.02	0.0308	0.0004	-0.0000	0.0146	-0.0012	0.4532	-0.0159	0.1722	-0.0351	0.3800	
35	12.97	0.03	0.0317	0.0005	-0.0017	0.0161	-0.0559	0.4582	-0.0161	0.1760	-0.0344	0.3759	
36	13.35	0.01	0.0270	0.0005	-0.0013	0.0204	-0.0483	0.4882	-0.0165	0.1793	-0.0339	0.3688	
37	13.70	0.01	0.0315	0.0008	-0.0004	0.0270	-0.0128	0.4933	-0.0177	0.1864	-0.0352	0.3704	
38	14.09	0.02	0.0317	0.0010	-0.0004	0.0315	-0.0136	0.5177	-0.0187	0.1937	-0.0361	0.3742	
39	14.48	0.01	0.0294	0.0009	-0.0015	0.0307	-0.1207	0.5155	-0.0184	0.1967	-0.0343	0.3674	
40	14.83	0.02	0.0295	0.0010	-0.0016	0.0356	-0.1710	0.5454	-0.0186	0.2029	-0.0335	0.3650	
41	15.20	0.02	0.0293	0.0009	-0.0014	0.0324	-0.1173	0.5720	-0.0193	0.2079	-0.0337	0.3635	
42	15.51	-0.01	0.0172	0.0011	-0.0033	0.0639	-0.1900	0.5857	-0.0186	0.2150	-0.0318	0.3647	
43	15.90	0.0	0.0185	0.0009	-0.0041	0.0513	-0.2215	0.6007	-0.0192	0.2178	-0.0320	0.3625	
44	16.26	0.0	0.0185	0.0005	-0.0055	0.0703	-0.3335	0.6206	-0.0189	0.2240	-0.0304	0.3609	
45	16.61	-0.02	0.0044	0.0003	-0.0081	0.0357	-0.9644	0.6414	-0.0182	0.2310	-0.0284	0.3602	
46	16.95	-0.01	0.0117	0.0	-0.0061	0.0	-0.5215	0.6615	-0.0173	0.2361	-0.0261	0.3569	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

/ BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		60		0.97		1.7	0.0	0.2112	15.400	0	0	0	0	FIXED
POINT	ALPHA	HFTA	CNPF1	CM1	CM1	XCMPF1	YCPF1	CNP2	CM2	CM2	XCMPF2	YCPF2		
47	17.29	0.0	0.0075	-0.0002	-0.0088	-0.0333	-1.1735	0.6801	-0.0167	0.2421	-0.0245	0.3560		
48	17.61	0.0	0.0068	-0.0005	-0.0063	-0.0735	-0.9315	0.7084	-0.0156	0.2499	-0.0221	0.3528		
49	17.95	-0.01	-0.0004	-0.0002	-0.0103	0.4999	25.8332	0.7294	-0.0148	0.2541	-0.0204	0.3684		
50	18.27	0.01	-0.0020	-0.0010	-0.0093	0.5749	4.6332	0.7541	-0.0140	0.2625	-0.0186	0.3681		
51	18.63	-0.02	-0.0055	-0.0008	-0.0106	0.1454	1.4337	0.7662	-0.0130	0.2655	-0.0170	0.1465		
52	18.95	0.02	-0.0141	-0.0003	-0.0135	0.0713	0.9573	0.7909	-0.0127	0.2726	-0.0161	0.3447		
53	19.26	-0.01	-0.0265	-0.0006	-0.0170	0.0245	0.6426	0.7976	-0.0119	0.2743	-0.0150	0.3439		
54	19.63	-0.01	-0.0147	0.0	-0.0164	0.0	0.9001	0.8235	-0.0120	0.2795	-0.0146	0.3394		
55	19.96	0.0	-0.0235	-0.0006	-0.0187	0.0255	0.7970	0.8478	-0.0107	0.2843	-0.0127	0.3353		
56	20.29	-0.03	-0.0311	-0.0002	-0.0197	0.0080	0.6323	0.8705	-0.0089	0.2903	-0.0103	0.3334		
57	20.63	0.0	-0.0353	-0.0004	-0.0215	0.0127	0.6080	0.8832	-0.0087	0.2934	-0.0099	0.3322		
58	20.96	-0.02	-0.0431	-0.0003	-0.0247	0.0081	0.5722	0.8877	-0.0084	0.2950	-0.0095	0.3323		
59	21.31	-0.03	-0.0410	-0.0006	-0.0239	0.0159	0.5820	0.9121	-0.0083	0.3004	-0.0091	0.3294		
60	21.66	-0.01	-0.0374	-0.0011	-0.0216	0.0291	0.5713	0.9460	-0.0085	0.3099	-0.0088	0.3276		
61	22.01	-0.02	-0.0363	-0.0011	-0.0222	0.0303	0.6115	0.9716	-0.0038	0.3133	-0.0039	0.3224		
62	22.33	-0.01	-0.0335	-0.0011	-0.0230	0.0343	0.6855	0.9809	-0.0038	0.3187	-0.0039	0.3249		
63	22.65	0.0	-0.0490	-0.0015	-0.0245	0.0306	0.5026	1.0029	-0.0019	0.3210	-0.0019	0.3201		
64	22.96	-0.02	-0.0549	-0.0012	-0.0286	0.0219	0.5208	1.0114	-0.0018	0.3238	-0.0018	0.3202		
65	23.24	-0.01	-0.0504	-0.0009	-0.0272	0.0179	0.5346	1.0149	-0.0008	0.3251	-0.0008	0.3203		
66	23.61	-0.04	-0.0421	-0.0014	-0.0233	0.0344	0.5541	1.0284	-0.0008	0.3262	-0.0008	0.3172		
67	23.92	-0.03	-0.0535	-0.0019	-0.0267	0.0355	0.4946	1.0415	-0.0001	0.3308	-0.0001	0.3177		
68	24.24	-0.02	-0.0539	-0.0020	-0.0317	0.0334	0.5285	1.0582	0.0010	0.3343	0.0010	0.3159		
69	24.57	-0.05	-0.0548	-0.0011	-0.0291	0.0210	0.5303	1.0683	0.0027	0.3349	0.0026	0.3135		
70	24.91	-0.02	-0.0554	-0.0016	-0.0309	0.0249	0.5570	1.0835	0.0033	0.3393	0.0031	0.3132		
71	25.23	-0.03	-0.0526	-0.0013	-0.0269	0.0247	0.5119	1.1000	0.0044	0.3409	0.0040	0.3099		
72	25.55	-0.05	-0.0671	-0.0023	-0.0346	0.0350	0.5150	1.1086	0.0042	0.3425	0.0038	0.3090		
73	25.86	-0.06	-0.0555	-0.0015	-0.0284	0.0279	0.5116	1.1117	0.0053	0.3424	0.0048	0.3080		
74	26.19	-0.02	-0.0752	-0.0037	-0.0311	0.0499	0.4130	1.1229	0.0059	0.3460	0.0053	0.3081		
75	26.46	-0.05	-0.0786	-0.0043	-0.0328	0.0553	0.4172	1.1270	0.0070	0.3479	0.0062	0.3087		
76	26.81	-0.05	-0.0760	-0.0066	-0.0268	0.0475	0.3530	1.1375	0.0070	0.3487	0.0062	0.3061		
77	27.08	-0.02	-0.0943	-0.0068	-0.0355	0.0726	0.3767	1.1531	0.0087	0.3516	0.0076	0.3049		
78	27.43	-0.04	-0.0909	-0.0087	-0.0305	0.0962	0.3354	1.1555	0.0096	0.3493	0.0083	0.3023		
79	27.76	-0.05	-0.0788	-0.0093	-0.0257	0.1186	0.3256	1.1678	0.0106	0.3516	0.0091	0.3011		
80	28.05	-0.04	-0.0870	-0.0093	-0.0261	0.1075	0.2949	1.1685	0.0112	0.3521	0.0096	0.3013		
81	28.38	-0.04	-0.0847	-0.0090	-0.0302	0.1020	0.3400	1.1873	0.0139	0.3555	0.0117	0.2994		
82	28.66	-0.04	-0.0970	-0.0087	-0.0354	0.0897	0.3652	1.2000	0.0150	0.3577	0.0125	0.2981		
83	28.98	-0.02	-0.0917	-0.0070	-0.0356	0.0763	0.3888	1.2152	0.0174	0.3604	0.0144	0.2966		
84	29.29	-0.02	-0.0848	-0.0082	-0.0290	0.0967	0.3415	1.2213	0.0173	0.3610	0.0142	0.2956		
85	29.63	-0.02	-0.0913	-0.0052	-0.0369	0.0569	0.4044	1.2405	0.0202	0.3622	0.0163	0.2919		
86	29.95	-0.03	-0.0858	-0.0051	-0.0337	0.0594	0.3927	1.2532	0.0217	0.3645	0.0173	0.2908		
87	30.31	-0.02	-0.0882	-0.0032	-0.0349	0.0363	0.3956	1.2762	0.0229	0.3702	0.0179	0.2901		
88	30.62	-0.02	-0.0958	-0.0085	-0.0300	0.0892	0.3134	1.2797	0.0214	0.3711	0.0167	0.2900		

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	6.0	0.97	1.7	0.0	B2W1F12	15.400	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	-2.84	0.0	0.0360	0.0016	-0.0007	0.0444	-0.0196	-0.1069	-0.0000	-0.0015	0.0005	0.0142
2	-2.68	0.03	0.0236	0.0015	0.0029	0.0635	0.1171	-0.1078	-0.0003	0.0019	0.0032	-0.0174
3	-2.03	0.02	0.0237	0.0016	0.0027	0.0675	0.1138	-0.0971	-0.0015	0.0008	0.0178	-0.1008
4	-1.39	0.01	0.0236	0.0014	0.0028	0.0593	0.1171	-0.0689	-0.0016	0.0009	0.0232	-0.1443
5	-0.82	0.03	0.0358	0.0013	-0.0007	0.0363	-0.0187	-0.0624	-0.0013	0.0132	0.0208	-0.2117
6	-0.28	0.03	0.0235	0.0013	0.0028	0.0553	0.1204	-0.0558	-0.0009	0.0157	0.0161	-0.2815
7	0.26	0.02	0.0235	0.0013	0.0028	0.0553	0.1204	-0.0558	-0.0005	0.0184	0.0088	-0.3258
8	0.80	0.02	0.0236	0.0010	0.0015	0.0289	0.0442	-0.0537	-0.0005	0.0220	0.0093	-0.4098
9	1.33	0.02	0.0234	0.0009	0.0028	0.0385	0.1195	-0.0397	-0.0006	0.0263	0.0164	-0.6617
10	1.87	0.02	0.0275	0.0010	0.0017	0.0364	0.0605	-0.0328	-0.0016	0.0295	0.0503	-0.8985
11	2.36	0.02	0.0308	0.0009	0.0020	0.0292	0.0637	-0.0151	-0.0027	0.0347	0.1821	-2.2959
12	2.87	0.01	0.0234	0.0009	0.0028	0.0385	0.1195	-0.0066	-0.0038	0.0388	-0.5832	5.8787
13	3.35	0.01	0.0303	0.0005	0.0027	0.0165	0.0890	0.0011	-0.0050	0.0474	-4.5901	43.0605
14	3.86	0.01	0.0333	0.0005	0.0037	0.0150	0.1110	0.0293	-0.0066	0.0560	-0.2252	1.9100
15	4.34	0.01	0.0319	0.0	0.0060	0.0	0.1890	0.0505	-0.0076	0.0621	-0.1505	1.2302
16	4.81	0.02	0.0318	-0.0003	0.0060	-0.0094	0.1886	0.0761	-0.0093	0.0664	-0.1222	0.8733
17	5.27	0.02	0.0303	-0.0004	0.0089	-0.0132	0.2936	0.0961	-0.0101	0.0773	-0.1056	0.8046
18	5.76	0.01	0.0301	-0.0008	0.0089	-0.0266	0.2967	0.1171	-0.0115	0.0847	-0.0986	0.7235
19	6.21	-0.03	0.0313	-0.0006	0.0067	-0.0192	0.2150	0.1337	-0.0127	0.0947	-0.0950	0.7087
20	6.69	-0.01	0.0189	-0.0010	0.0102	-0.0555	0.5396	0.1593	-0.0134	0.0977	-0.0841	0.6132
21	7.15	0.03	0.0338	-0.0009	0.0086	-0.0266	0.2533	0.1868	-0.0146	0.1090	-0.0784	0.5838
22	7.63	0.01	0.0313	-0.0014	0.0130	-0.0447	0.4163	0.1999	-0.0156	0.1180	-0.0783	0.5903
23	8.06	0.02	0.0313	-0.0014	0.0130	-0.0447	0.4163	0.2247	-0.0155	0.1237	-0.0692	0.5504
24	8.52	0.03	0.0313	-0.0014	0.0130	-0.0447	0.4163	0.2414	-0.0159	0.1323	-0.0661	0.5482
25	8.95	-0.03	0.0425	-0.0014	0.0117	-0.0329	0.2744	0.2766	-0.0159	0.1413	-0.0576	0.5107
26	9.36	0.0	0.0424	-0.0016	0.0117	-0.0377	0.2766	0.2975	-0.0165	0.1481	-0.0556	0.4979
27	9.80	-0.02	0.0343	-0.0016	0.0129	-0.0418	0.3358	0.3257	-0.0165	0.1544	-0.0506	0.4772
28	10.22	-0.01	0.0371	-0.0019	0.0151	-0.0512	0.4060	0.3538	-0.0166	0.1633	-0.0469	0.4615
29	10.62	-0.05	0.0401	-0.0020	0.0161	-0.0499	0.4005	0.3750	-0.0171	0.1703	-0.0456	0.4540
30	11.04	-0.02	0.0435	-0.0028	0.0157	-0.0598	0.3608	0.4031	-0.0178	0.1773	-0.0441	0.4399
31	11.46	0.01	0.0507	-0.0023	0.0156	-0.0454	0.3076	0.4247	-0.0183	0.1814	-0.0431	0.4271
32	11.85	0.02	0.0449	-0.0026	0.0150	-0.0542	0.3423	0.4373	-0.0179	0.1911	-0.0410	0.4370
33	12.24	0.0	0.0434	-0.0029	0.0158	-0.0688	0.3632	0.4586	-0.0181	0.1959	-0.0396	0.4272
34	12.61	0.02	0.0455	-0.0028	0.0205	-0.0571	0.4447	0.4903	-0.0187	0.2068	-0.0382	0.4176
35	12.97	0.03	0.0445	-0.0026	0.0178	-0.0525	0.3595	0.5163	-0.0186	0.2064	-0.0360	0.3998
36	13.35	0.01	0.0383	-0.0028	0.0191	-0.0674	0.4977	0.5190	-0.0197	0.2129	-0.0379	0.4103
37	13.70	0.01	0.0504	-0.0032	0.0226	-0.0666	0.4485	0.5473	-0.0198	0.2202	-0.0362	0.4023
38	14.09	0.02	0.0546	-0.0039	0.0214	-0.0540	0.3918	0.5756	-0.0199	0.2282	-0.0346	0.3944
39	14.46	0.01	0.0546	-0.0029	0.0214	-0.0540	0.3918	0.5900	-0.0203	0.2312	-0.0345	0.3918
40	14.83	0.02	0.0457	-0.0015	0.0250	-0.0339	0.5477	0.6138	-0.0203	0.2397	-0.0331	0.3906
41	15.20	0.02	0.0567	-0.0029	0.0238	-0.0520	0.4196	0.6358	-0.0210	0.2424	-0.0331	0.3813
42	15.51	-0.01	0.0561	-0.0032	0.0246	-0.0519	0.4384	0.6486	-0.0208	0.2472	-0.0321	0.3812
43	15.90	0.0	0.0550	-0.0034	0.0267	-0.0627	0.4859	0.6625	-0.0207	0.2543	-0.0313	0.3839
44	16.26	0.0	0.0676	-0.0034	0.0294	-0.0503	0.4353	0.6943	-0.0203	0.2616	-0.0293	0.3771
45	16.61	-0.02	0.0775	-0.0032	0.0242	-0.0613	0.3126	0.7094	-0.0204	0.2666	-0.0286	0.3758
46	16.95	-0.01	0.0892	-0.0034	0.0284	-0.0641	0.3838	0.7309	-0.0193	0.2693	-0.0265	0.3685

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH REX10-6 PM1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 60 0.9/ 1.7 0.0 M2M1F12 15.400 0 0 0 0 FIXED												
POINT	ALPHA	META	CNF.3	CM3	CM3	XCPF3	YCPF3	CNF4	CM4	CM4	XCPF4	YCPF4
47	17.29	0.0	0.0679	-0.0029	0.0294	-0.0427	0.4334	0.7514	-0.0187	0.2775	-0.0249	0.3693
48	17.61	0.0	0.0691	-0.0029	0.0272	-0.0420	0.3940	0.7806	-0.0180	0.2814	-0.0231	0.3605
49	17.95	-0.01	0.0742	-0.0028	0.0282	-0.0353	0.3559	0.8022	-0.0175	0.2878	-0.0218	0.3588
50	18.27	0.01	0.0778	-0.0027	0.0312	-0.0353	0.4013	0.8349	-0.0166	0.2956	-0.0199	0.3541
51	18.63	-0.02	0.0753	-0.0024	0.0294	-0.0325	0.3903	0.8455	-0.0152	0.2969	-0.0180	0.3512
52	18.95	0.02	0.0718	-0.0028	0.0290	-0.0390	0.4042	0.8872	-0.0143	0.3062	-0.0161	0.3452
53	19.26	-0.01	0.0861	-0.0034	0.0242	-0.0395	0.3274	0.9011	-0.0142	0.3113	-0.0158	0.3454
54	19.63	-0.01	0.0842	-0.0024	0.0313	-0.0323	0.3548	0.9146	-0.0137	0.3158	-0.0149	0.3438
55	19.96	0.0	0.0874	-0.0027	0.0321	-0.0313	0.3651	0.9436	-0.0123	0.3193	-0.0130	0.3384
56	20.29	-0.03	0.0842	-0.0017	0.0320	-0.0193	0.3627	0.9542	-0.0113	0.3208	-0.0118	0.3361
57	20.63	0.0	0.1021	-0.0017	0.0324	-0.0156	0.3175	0.9647	-0.0110	0.3264	-0.0114	0.3383
58	20.96	-0.02	0.0844	-0.0014	0.0313	-0.0158	0.3524	0.9656	-0.0111	0.3259	-0.0115	0.3375
59	21.31	-0.03	0.0854	-0.0008	0.0317	-0.0094	0.3707	0.9843	-0.0103	0.3309	-0.0105	0.3362
60	21.66	-0.01	0.0900	-0.0002	0.0366	-0.0078	0.4065	1.0051	-0.0080	0.3327	-0.0080	0.3310
61	22.01	-0.02	0.0893	0.0003	0.0374	0.0034	0.4250	1.0274	-0.0059	0.3376	-0.0057	0.3286
62	22.33	-0.01	0.0940	0.0003	0.0372	0.0031	0.3802	1.0309	-0.0057	0.3407	-0.0055	0.3305
63	22.65	0.0	0.0965	0.0008	0.0377	0.0083	0.3912	1.0660	-0.0043	0.3426	-0.0040	0.3214
64	22.96	-0.02	0.0876	0.0008	0.0347	0.0097	0.3960	1.0659	-0.0043	0.3461	-0.0041	0.3247
65	23.24	-0.01	0.0945	0.0012	0.0376	0.0124	0.3902	1.0786	-0.0034	0.3471	-0.0036	0.3218
66	23.61	-0.04	0.0992	0.0012	0.0394	0.0176	0.3977	1.1119	-0.0025	0.3515	-0.0023	0.3161
67	23.92	-0.03	0.0936	0.0004	0.0368	0.0085	0.3930	1.1224	-0.0022	0.3594	-0.0020	0.3201
68	24.24	-0.02	0.1065	0.0013	0.0394	0.0127	0.3648	1.1410	-0.0022	0.3641	-0.0020	0.3191
69	24.57	-0.04	0.1049	0.0018	0.0361	0.0176	0.3447	1.1528	-0.0021	0.3636	-0.0019	0.3154
70	24.87	-0.02	0.0943	0.0019	0.0400	0.0196	0.4027	1.1567	-0.0006	0.3705	-0.0006	0.3203
71	25.23	-0.03	0.1044	0.0022	0.0365	0.0208	0.3369	1.1774	0.0003	0.3694	0.0003	0.3138
72	25.55	-0.05	0.1145	0.0030	0.0380	0.0253	0.3206	1.1953	0.0004	0.3748	0.0003	0.3136
73	25.86	-0.06	0.1191	0.0022	0.0358	0.0189	0.3005	1.1929	0.0010	0.3726	0.0009	0.3123
74	26.19	-0.02	0.1112	0.0027	0.0381	0.0243	0.3431	1.2120	0.0023	0.3745	0.0019	0.3123
75	26.46	-0.04	0.1131	0.0022	0.0337	0.0199	0.2978	1.2058	0.0014	0.3788	0.0012	0.3141
76	26.81	-0.05	0.1130	0.0022	0.0337	0.0199	0.2987	1.2481	0.0044	0.3814	0.0036	0.3056
77	27.08	-0.02	0.1245	0.0037	0.0391	0.0301	0.3134	1.2418	0.0039	0.3839	0.0031	0.3091
78	27.43	-0.04	0.1365	0.0030	0.0349	0.0220	0.2556	1.2437	0.0074	0.3853	0.0060	0.3098
79	27.76	-0.05	0.1375	0.0033	0.0360	0.0249	0.2721	1.2503	0.0090	0.3872	0.0072	0.3097
80	28.05	-0.04	0.1365	0.0037	0.0356	0.0271	0.2607	1.2542	0.0111	0.3871	0.0088	0.3087
81	28.38	-0.04	0.1310	0.0033	0.0320	0.0257	0.2447	1.2713	0.0111	0.3872	0.0088	0.3046
82	28.66	-0.04	0.1439	0.0040	0.0347	0.0281	0.2415	1.2861	0.0126	0.3876	0.0098	0.3014
83	28.98	-0.02	0.1502	0.0054	0.0374	0.0359	0.2493	1.2942	0.0137	0.3920	0.0102	0.3029
84	29.29	-0.02	0.1408	0.0044	0.0344	0.0316	0.2444	1.3000	0.0149	0.3923	0.0115	0.3018
85	29.63	-0.02	0.1554	0.0054	0.0394	0.0346	0.2530	1.3097	0.0156	0.3932	0.0119	0.3004
86	29.95	-0.03	0.1453	0.0049	0.0316	0.0341	0.2176	1.3120	0.0182	0.3920	0.0139	0.2988
87	30.31	-0.02	0.1441	0.0053	0.0333	0.0361	0.2252	1.3195	0.0170	0.3945	0.0129	0.2990
88	30.62	-0.02	0.1564	0.0051	0.0371	0.0326	0.2373	1.3248	0.0219	0.3922	0.0165	0.2961

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 61 1.01 1.7			0.0	B2W1P12	15.400	0	0	0	0	FIXED
POINT	ALPHA	MFTA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.84	0.02	-0.6603	0.0716	0.1234	-0.0183	0.0250	0.3766	-0.1084	
2	-2.82	0.03	-0.6284	0.0429	0.1305	0.0263	0.0210	0.3855	-0.0483	
3	-2.04	0.04	-0.4880	0.0203	0.2137	0.0618	0.0300	0.3926	-0.0417	
4	-1.34	0.01	-0.2993	0.0020	0.1186	-0.0640	0.0250	0.3882	-0.0067	
5	-0.81	0.02	-0.1672	0.0011	0.0494	0.0048	0.0260	0.3954	-0.0065	
6	-0.29	0.03	-0.0330	0.0022	0.1695	0.0007	0.0270	0.4007	-0.0667	
7	0.29	0.02	0.1165	0.0299	0.0437	-0.0232	0.0270	0.4020	0.2567	
8	0.82	0.03	0.2352	0.0397	0.1465	0.0029	0.0170	0.4002	0.1689	
9	1.36	0.02	0.3764	0.0772	0.0674	0.0076	0.0240	0.4026	0.2041	
10	1.89	0.06	0.4874	0.0615	0.2354	-0.0226	0.0270	0.4047	0.1762	
11	2.41	0.03	0.6592	0.0200	0.0515	-0.0141	0.0250	0.4067	0.0303	
12	2.90	0.03	0.8025	0.0004	0.1276	-0.1296	0.0250	0.4051	0.0004	
13	3.40	0.04	0.9195	-0.0874	0.1475	-0.1145	0.0280	0.4032	-0.0951	
14	3.87	0.04	1.0496	-0.1376	0.1482	-0.0415	0.0340	0.4004	-0.1311	
15	4.36	0.06	1.2270	-0.2590	0.2247	0.0224	0.0350	0.3914	-0.2111	
16	4.83	0.01	1.4117	-0.3686	0.1761	-0.0085	0.0240	0.3933	-0.2611	
17	5.30	0.06	1.5930	-0.5254	0.2229	0.0849	0.0350	0.3885	-0.3298	
18	5.79	0.03	1.7377	-0.6180	0.1934	-0.0618	0.0280	0.3942	-0.3556	
19	6.24	-0.01	1.9364	-0.7653	0.1040	-0.0746	0.0370	0.3962	-0.3952	
20	6.72	0.02	2.0322	-0.8244	0.1972	-0.1591	0.0350	0.4033	-0.4057	
21	7.18	0.08	2.1944	-0.9725	0.1677	0.0062	0.0260	0.4017	-0.4431	
22	7.66	0.02	2.3775	-1.1408	0.0717	0.0106	0.0280	0.4010	-0.4798	
23	8.08	-0.01	2.5115	-1.2734	0.1215	-0.0601	0.0350	0.3964	-0.5070	
24	8.53	-0.06	2.7045	-1.3697	0.0160	-0.0364	0.0360	0.3874	-0.5129	
25	8.98	0.01	2.7862	-1.5470	0.1122	0.0249	0.0290	0.3763	-0.5552	
26	9.39	-0.03	3.0106	-1.7782	0.1792	-0.0249	0.0350	0.3679	-0.5906	
27	9.81	0.03	3.1562	-2.0240	0.0467	-0.0424	0.0420	0.3488	-0.6413	
28	10.24	0.08	3.3333	-2.1599	0.0605	-0.0607	0.0400	0.3470	-0.6480	
29	10.66	0.07	3.4992	-2.2913	0.1543	-0.0030	0.0420	0.3466	-0.6548	
30	11.07	0.08	3.6516	-2.4440	0.1013	-0.0468	0.0340	0.3552	-0.6708	
31	11.48	0.02	3.7652	-2.6036	0.0682	-0.0225	0.0160	0.3619	-0.6804	
32	11.89	-0.01	3.9450	-2.6162	-0.0511	0.0058	0.0120	0.3651	-0.6721	
33	12.28	0.02	4.0884	-2.7501	0.0514	-0.0010	0.0350	0.3667	-0.6727	
34	12.66	0.02	4.1718	-2.8478	0.1375	0.0245	0.0160	0.3611	-0.6946	
35	13.02	0.03	4.4037	-3.0226	0.0882	-0.0015	0.0360	0.3600	-0.6464	
36	13.37	0.03	4.6572	-3.1413	0.1429	0.0551	0.0440	0.3576	-0.6997	
37	13.77	0.02	4.6522	-3.2325	0.1174	0.0581	0.0430	0.3520	-0.6948	
38	14.14	0.0	4.8252	-3.4377	0.0034	-0.0048	0.0400	0.3372	-0.7124	
39	14.52	0.02	5.0086	-3.6475	0.1448	-0.0347	0.0400	0.3340	-0.7282	
40	14.94	0.01	5.1345	-3.7308	0.0006	0.0461	0.0490	0.3312	-0.7259	
41	15.22	0.02	5.3125	-3.9780	0.1263	-0.0008	0.0480	0.3030	-0.7488	
42	15.62	0.01	5.4603	-4.0639	0.0176	0.1063	0.0490	0.2950	-0.7443	
43	15.94	0.01	5.6131	-4.2408	0.0412	0.0263	0.0440	0.2746	-0.7444	
44	16.28	-0.02	5.7922	-4.4746	0.0014	0.0546	0.0540	0.2759	-0.7725	
45	16.62	0.02	5.9390	-4.6661	0.1117	-0.0074	0.0440	0.2716	-0.7857	
46	16.97	0.02	6.1301	-4.8656	0.1254	0.0434	0.0450	0.2645	-0.7937	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PAPER MACH R10-6									
6 61 1.01 1.7 0.0 02W1P12 15.400 0 0 0 0 FIXED									
POINT	ALPHA	META	CN	CLM	CY	CLN	CLL	CAF	XCP
47	17.31	0.02	6.2915	-5.0306	0.0960	0.0776	0.0390	0.2790	-0.7996
48	17.66	0.02	6.4773	-5.2407	0.1029	-0.0091	0.0390	0.2989	-0.8091
49	17.99	0.02	6.6243	-5.3746	0.0996	0.0126	0.0340	0.3165	-0.8113
50	18.35	0.02	6.7565	-5.4446	0.0302	0.1677	0.0330	0.3413	-0.8058
51	18.69	0.01	6.8807	-5.6525	0.0663	0.1242	0.0270	0.3687	-0.8215
52	19.03	0.02	7.0278	-5.8254	0.0469	0.1233	0.0270	0.3813	-0.8289
53	19.37	0.0	7.1852	-6.0567	0.0893	0.1030	0.0260	0.3983	-0.8430
54	19.72	-0.01	7.2586	-6.1915	0.0473	0.1048	0.0120	0.3741	-0.8530
55	20.04	0.0	7.4132	-6.3001	0.0831	-0.0133	0.0100	0.3552	-0.8498
56	20.38	0.01	7.4971	-6.3585	0.0898	0.1033	0.0040	0.3176	-0.8481
57	20.72	-0.02	7.6005	-6.4153	-0.0165	0.1091	-0.0030	0.2483	-0.8441
58	21.05	0.0	7.7926	-6.6412	0.0879	0.1269	0.0030	0.2114	-0.8522
59	21.39	0.0	7.9342	-6.7814	0.0920	0.1622	-0.0030	0.1703	-0.8547
60	21.72	-0.02	8.0926	-6.8623	-0.0164	0.0730	-0.0020	0.1489	-0.8480
61	22.07	-0.01	8.2394	-6.9258	0.0004	0.1694	-0.0060	0.1427	-0.8406
62	22.40	-0.02	8.4405	-7.0693	0.0408	-0.0091	-0.0090	0.1488	-0.8375
63	22.74	0.0	8.6043	-7.2016	0.0844	0.1818	-0.0090	0.1652	-0.8370
64	23.07	-0.01	8.7084	-7.2563	0.0280	0.0938	-0.0120	0.1435	-0.8333
65	23.41	-0.02	8.8367	-7.2481	-0.0013	0.1638	-0.0210	0.2126	-0.8110
66	23.73	-0.01	9.0727	-7.2455	0.0367	0.1468	-0.0220	0.2374	-0.7986
67	24.05	0.0	9.1652	-7.0820	0.0518	0.1645	-0.0270	0.2339	0.3419
68	24.40	0.01	9.3218	-7.3662	0.1148	0.2193	-0.0250	0.2323	-0.7902
69	24.73	-0.02	9.4845	-7.3860	0.0330	0.1848	-0.0420	0.2354	-0.7787
70	25.08	-0.03	9.6402	-7.4261	-0.0486	0.3410	-0.0260	0.2326	-0.7664
71	25.39	-0.03	9.8243	-7.5998	-0.0124	0.2203	-0.0430	0.2211	-0.7736
72	25.70	-0.02	9.9001	-7.7159	0.0334	0.2172	-0.0140	0.1810	-0.7794
73	26.01	-0.03	10.0868	-7.8843	-0.0084	0.2754	-0.0240	0.1749	-0.7816
74	26.31	-0.03	10.2737	-7.9790	0.0180	0.1678	-0.0430	0.1938	-0.7766
75	26.62	-0.03	10.4036	-8.1169	-0.0212	0.2376	-0.0490	0.1909	-0.7802
76	26.95	-0.03	10.5822	-8.0360	-0.0533	0.3296	-0.0760	0.2319	-0.7594
77	27.25	-0.03	10.7860	-8.0903	-0.0661	0.3415	-0.0690	0.2358	-0.7501
78	27.57	-0.03	10.8947	-8.1205	-0.0987	0.4551	-0.0600	0.2419	-0.7454
79	27.89	-0.04	11.0057	-8.1319	-0.2094	0.5371	-0.0720	0.2389	-0.7389
80	28.21	-0.04	11.1542	-8.1769	-0.1764	0.5149	-0.0860	0.2268	-0.7331
81	28.53	-0.05	11.3429	-8.2771	-0.1893	0.3970	-0.0770	0.2130	-0.7297
82	28.84	-0.04	11.4588	-8.2690	-0.1524	0.4593	-0.1150	0.1818	-0.7218
83	29.14	-0.04	11.5668	-8.3207	-0.1098	0.3267	-0.1220	0.1619	-0.7195
84	29.47	-0.04	11.6973	-8.1572	-0.0769	0.4416	-0.1350	0.1081	-0.6974
85	29.75	-0.04	11.7425	-8.1565	-0.0573	0.3152	-0.1400	0.0922	-0.6944
86	30.09	-0.07	11.9365	-8.0993	-0.1936	0.2020	-0.1220	0.0913	-0.6785
87	30.40	-0.03	12.1487	-8.1723	-0.1199	0.5818	-0.1480	0.1047	-0.6727

PAGE 2 OF 3
 SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	HT10-6	PMI	CONF	C	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		61	1.01 1.7	0.0	HPWIF12	15.400	0	0	0	0	FIXED	
POINT	ALPHA	HTA	CNF1	CM1	CM1	XCPF1	YCPF1	CNF2	CM2	CM2	XCPF2	YCPF2
1	-2.44	0.02	0.0476	-0.0012	-0.0054	-0.0263	-0.1143	-0.0245	0.0039	-0.0305	-0.1368	1.0701
2	-2.42	0.03	0.0479	-0.0011	-0.0054	-0.0230	-0.1156	-0.0214	0.0032	-0.0258	-0.1518	1.2070
3	-2.04	0.04	0.0479	-0.0011	-0.0055	-0.0230	-0.1156	-0.0115	0.0021	-0.0211	-0.1826	1.8376
4	-1.39	0.01	0.0468	-0.0009	-0.0052	-0.0203	-0.1112	-0.0014	0.0012	-0.0172	-0.4570	12.2614
5	-0.41	0.02	0.0470	-0.0009	-0.0052	-0.0181	-0.1115	0.0114	0.0008	-0.0138	0.0745	-1.2106
6	-0.29	0.03	0.0471	-0.0007	-0.0053	-0.0159	-0.1126	0.0164	0.0007	-0.0119	0.0457	-0.7274
7	0.29	0.02	0.0525	-0.0007	-0.0059	-0.0133	-0.1125	0.0234	0.0008	-0.0094	0.0357	-0.3937
8	0.42	0.03	0.0512	-0.0006	-0.0055	-0.0117	-0.1082	0.0245	0.0010	-0.0069	0.0428	-0.2431
9	1.36	0.02	0.0442	-0.0005	-0.0031	-0.0114	-0.0651	0.0293	0.0008	-0.0041	0.0273	-0.1412
10	1.49	0.06	0.0469	-0.0005	-0.0030	-0.0107	-0.0634	0.0342	0.0001	-0.0017	0.0039	-0.0437
11	2.41	0.03	0.0469	-0.0006	-0.0042	-0.0124	-0.0890	0.0453	-0.0005	0.0035	-0.0121	0.0771
12	2.40	0.03	0.0471	-0.0005	-0.0042	-0.0117	-0.0893	0.0567	-0.0014	0.0074	-0.0256	0.1374
13	3.40	0.04	0.0522	-0.0005	-0.0036	-0.0105	-0.0641	0.0732	-0.0022	0.0133	-0.0300	0.1816
14	3.67	0.04	0.0523	-0.0007	-0.0048	-0.0134	-0.0913	0.0819	-0.0032	0.0192	-0.0391	0.2343
15	4.36	0.06	0.0545	-0.0011	-0.0062	-0.0124	-0.1093	0.1021	-0.0047	0.0273	-0.0460	0.2676
16	4.43	0.01	0.0545	-0.0006	-0.0044	-0.0115	-0.0845	0.1176	-0.0056	0.0335	-0.0480	0.2447
17	5.30	0.06	0.0545	-0.0006	-0.0056	-0.0101	-0.0937	0.1295	-0.0066	0.0424	-0.0513	0.3274
18	5.19	0.03	0.0617	-0.0007	-0.0044	-0.0113	-0.0720	0.1497	-0.0040	0.0511	-0.0534	0.3412
19	6.24	-0.01	0.0648	-0.0006	-0.0062	-0.0093	-0.0954	0.1701	-0.0092	0.0574	-0.0544	0.3397
20	6.72	0.02	0.0650	-0.0005	-0.0071	-0.0085	-0.1049	0.1851	-0.0106	0.0644	-0.0573	0.3554
21	7.14	0.08	0.0640	-0.0006	-0.0052	-0.0091	-0.0789	0.2079	-0.0115	0.0750	-0.0555	0.3606
22	7.66	0.02	0.0645	-0.0006	-0.0044	-0.0093	-0.0745	0.2277	-0.0122	0.0821	-0.0538	0.3604
23	8.08	-0.01	0.0648	-0.0006	-0.0053	-0.0086	-0.0765	0.2410	-0.0125	0.0902	-0.0521	0.3743
24	8.53	-0.06	0.0655	-0.0007	-0.0042	-0.0107	-0.0637	0.2641	-0.0133	0.0974	-0.0505	0.3684
25	8.94	0.01	0.0629	-0.0007	-0.0050	-0.0119	-0.0801	0.2417	-0.0138	0.1040	-0.0441	0.3691
26	9.39	-0.03	0.0618	-0.0007	-0.0049	-0.0113	-0.0744	0.3041	-0.0142	0.1121	-0.0467	0.3687
27	9.41	0.03	0.0544	-0.0005	-0.0057	-0.0084	-0.0749	0.3254	-0.0143	0.1229	-0.0439	0.3771
28	10.24	0.04	0.0645	-0.0005	-0.0028	-0.0079	-0.0447	0.3469	-0.0152	0.1314	-0.0439	0.3787
29	10.66	0.07	0.0533	-0.0004	-0.0051	-0.0075	-0.0464	0.3656	-0.0153	0.1367	-0.0420	0.3740
30	11.07	0.08	0.0538	-0.0001	-0.0050	-0.0019	-0.0924	0.3862	-0.0161	0.1440	-0.0418	0.3724
31	11.48	0.02	0.0540	0.0	-0.0053	0.0	-0.0943	0.3999	-0.0174	0.1518	-0.0435	0.3795
32	11.49	-0.01	0.0544	0.0002	-0.0061	0.0046	-0.1116	0.4247	-0.0182	0.1597	-0.0430	0.3761
33	12.28	0.02	0.0542	0.0003	-0.0060	0.0045	-0.1114	0.4297	-0.0187	0.1620	-0.0423	0.3770
34	12.44	0.02	0.0528	0.0007	-0.0027	0.0133	-0.0513	0.4444	-0.0182	0.1670	-0.0410	0.3755
35	13.02	0.03	0.0490	0.0007	-0.0039	0.0153	-0.0740	0.4655	-0.0187	0.1726	-0.0402	0.3704
36	13.17	0.03	0.0424	0.0009	-0.0052	0.0222	-0.1224	0.4711	-0.0192	0.1744	-0.0407	0.3752
37	13.77	0.02	0.0543	0.0012	-0.0029	0.0225	-0.0542	0.4817	-0.0200	0.1743	-0.0416	0.3702
38	14.14	0.0	0.0443	0.0012	-0.0047	0.0305	-0.1147	0.4941	-0.0206	0.1844	-0.0414	0.3643
39	14.52	0.02	0.0444	0.0014	-0.0012	0.0324	-0.0724	0.5124	-0.0215	0.1844	-0.0414	0.3644
40	14.44	0.01	0.0470	0.0014	-0.0045	0.0342	-0.1204	0.5247	-0.0221	0.1945	-0.0414	0.3644
41	14.22	0.02	0.0444	0.0014	-0.0014	0.0344	-0.0744	0.5444	-0.0230	0.1944	-0.0421	0.3642
42	15.42	0.01	0.0444	0.0014	-0.0014	0.0344	-0.1224	0.5444	-0.0230	0.1944	-0.0421	0.3642
43	15.44	0.01	0.0244	0.0014	-0.0045	0.0344	-0.1512	0.5744	-0.0225	0.2044	-0.0414	0.3647
44	16.24	-0.02	0.0244	0.0017	-0.0054	0.0344	-0.2344	0.6044	-0.0224	0.2144	-0.0414	0.3642
45	16.62	0.02	0.0144	0.0016	-0.0054	0.0344	-0.3044	0.6144	-0.0219	0.2244	-0.0414	0.3642
46	16.97	0.02	0.0144	0.0014	-0.0054	0.0344	-0.4114	0.6444	-0.0214	0.2344	-0.0414	0.3642

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6											PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 61 1.01 1.7											0.0	0.2	0.1	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CMF1	CM1	CB1	XCPF1	YCPF1	CMF2	CM2	CB2	XCPF2	YCPF2							
47	17.31	0.02	0.0161	0.0011	-0.0077	0.0683	-0.4804	0.6673	-0.0209	0.2336	-0.0313	0.3501							
48	17.66	0.02	0.0109	0.0011	-0.0093	0.1009	-0.4503	0.6463	-0.0210	0.2446	-0.0302	0.3513							
49	17.99	0.02	0.0112	0.0012	-0.0109	0.1071	-0.4704	0.7181	-0.0200	0.2502	-0.0278	0.3444							
50	18.35	0.02	0.0064	0.0014	-0.0137	0.2147	-2.0574	0.7397	-0.0182	0.2530	-0.0246	0.3420							
51	18.64	0.01	0.0034	0.0019	-0.0137	0.5734	-4.0197	0.7601	-0.0172	0.2540	-0.0227	0.3407							
52	19.03	0.02	0.0044	0.0020	-0.0137	0.2329	-1.5531	0.7444	-0.0170	0.2635	-0.0216	0.3341							
53	19.37	0.0	0.0103	0.0021	-0.0145	0.2034	-1.4046	0.8168	-0.0174	0.2702	-0.0213	0.3308							
54	19.72	-0.01	0.0114	0.0019	-0.0158	0.1666	-1.3861	0.8267	-0.0177	0.2730	-0.0215	0.3302							
55	20.04	0.0	0.0045	0.0017	-0.0149	0.2058	-1.7491	0.8449	-0.0176	0.2756	-0.0208	0.3267							
56	20.38	0.01	0.0001	0.0020	-0.0168	20.4963	-167.6668	0.8522	-0.0179	0.2745	-0.0211	0.3279							
57	20.72	-0.02	-0.0011	0.0006	-0.0152	-0.5908	13.7878	0.8560	-0.0437	0.2833	-0.0510	0.3310							
58	21.05	0.0	-0.0058	0.0001	-0.0155	-0.0259	2.6740	0.8770	-0.0175	0.2895	-0.0200	0.3301							
59	21.39	0.0	-0.0041	0.0003	-0.0164	-0.0732	3.9918	0.9018	-0.0153	0.2946	-0.0170	0.3267							
60	21.72	-0.02	-0.0049	0.0008	-0.0146	-0.1734	2.9863	0.9099	-0.0152	0.2984	-0.0167	0.3279							
61	22.07	-0.01	0.0073	0.0012	-0.0117	0.1644	-1.5298	0.9230	-0.0153	0.2998	-0.0166	0.3248							
62	22.40	-0.02	-0.0058	0.0011	-0.0144	-0.1987	2.4844	0.9413	-0.0160	0.3062	-0.0170	0.3252							
63	22.74	0.0	0.0006	0.0010	-0.0140	1.6664	-23.3335	0.9458	-0.0178	0.3114	-0.0186	0.3258							
64	23.07	-0.01	-0.0063	0.0014	-0.0154	-0.2460	2.5078	0.9667	-0.0204	0.3143	-0.0211	0.3251							
65	23.41	-0.02	-0.0049	0.0019	-0.0174	-0.2753	2.5796	0.9801	-0.0234	0.3170	-0.0239	0.3234							
66	23.73	-0.01	-0.0221	0.0019	-0.0238	-0.0860	1.0753	0.9881	-0.0255	0.3171	-0.0258	0.3209							
67	24.05	0.0	-0.0270	0.0013	-0.0231	-0.0441	0.8554	0.9899	-0.0264	0.3181	-0.0267	0.3213							
68	24.40	0.01	-0.0325	0.0010	-0.0245	-0.0308	0.7548	0.9955	-0.0257	0.3184	-0.0259	0.3199							
69	24.73	-0.02	-0.0435	0.0004	-0.0247	-0.0082	0.6110	1.0080	-0.0255	0.3203	-0.0253	0.3177							
70	25.08	-0.03	-0.0507	-0.0005	-0.0326	0.0083	0.5409	1.0272	-0.0248	0.3220	-0.0243	0.3150							
71	25.39	-0.03	-0.0598	-0.0009	-0.0316	0.0159	0.5322	1.0404	-0.0239	0.3262	-0.0230	0.3135							
72	25.70	-0.02	-0.0407	-0.0013	-0.0254	0.0442	0.6256	1.0580	-0.0167	0.3304	-0.0158	0.3123							
73	26.01	-0.03	-0.0649	-0.0035	-0.0307	0.0531	0.4513	1.0784	-0.0142	0.3360	-0.0132	0.3116							
74	26.31	-0.03	-0.0814	-0.0041	-0.0240	0.0676	0.4717	1.0975	-0.0144	0.3409	-0.0131	0.3106							
75	26.62	-0.03	-0.0629	-0.0043	-0.0295	0.0684	0.4684	1.1212	-0.0125	0.3447	-0.0112	0.3074							
76	26.95	-0.03	-0.0632	-0.0029	-0.0299	0.0467	0.4725	1.1332	-0.0154	0.3484	-0.0140	0.3075							
77	27.25	-0.03	-0.0729	-0.0057	-0.0302	0.0789	0.4141	1.1417	-0.0164	0.3492	-0.0148	0.3059							
78	27.57	-0.03	-0.0654	-0.0072	-0.0247	0.1108	0.3699	1.1495	-0.0172	0.3523	-0.0150	0.3065							
79	27.89	-0.04	-0.0715	-0.0087	-0.0285	0.1154	0.3989	1.1633	-0.0160	0.3546	-0.0137	0.3049							
80	28.21	-0.04	-0.0810	-0.0122	-0.0269	0.1512	0.3073	1.1774	-0.0156	0.3576	-0.0133	0.3050							
81	28.53	-0.05	-0.0855	-0.0091	-0.0254	0.1497	0.3882	1.1982	-0.0124	0.3631	-0.0103	0.3030							
82	28.84	-0.04	-0.0783	-0.0101	-0.0297	0.1296	0.3797	1.2062	-0.0102	0.3635	-0.0085	0.3014							
83	29.14	-0.04	-0.0598	-0.0054	-0.0289	0.0970	0.4437	1.2120	-0.0058	0.3639	-0.0048	0.3007							
84	29.47	-0.04	-0.0471	-0.0097	-0.0317	0.1113	0.3585	1.2044	-0.0019	0.3611	-0.0016	0.2998							
85	29.75	-0.04	-0.0405	-0.0055	-0.0328	0.0683	0.4077	1.2180	0.0022	0.3620	0.0018	0.2972							
86	30.09	-0.07	-0.0552	-0.0058	-0.0289	0.1060	0.5234	1.2250	0.0022	0.3631	0.0018	0.2964							
87	30.40	-0.03	-0.0704	-0.0063	-0.0309	0.0895	0.4383	1.2432	0.0020	0.3672	0.0016	0.2953							

PAGE 3 OF 3
 SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MALM WX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 61 1.01 1.7				0.0	0.2	11.12	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-2.44	0.02	0.0131	0.0012	0.0072	0.0954	0.5470	-0.0937	0.0010	0.0012	-0.0107	-0.0126
2	-2.66	0.03	0.0311	0.0013	-0.0002	0.0434	-0.0076	-0.0910	0.0007	0.0048	-0.0077	-0.0525
3	-2.04	0.04	0.0350	0.0012	-0.0013	0.0357	-0.0382	-0.0661	-0.0004	0.0070	0.0068	-0.1055
4	-1.39	0.01	0.0227	0.0012	0.0027	0.0551	0.1174	-0.0634	-0.0014	0.0125	0.0227	-0.1966
5	-0.41	0.02	0.0292	0.0012	0.0010	0.0619	0.0510	-0.0499	-0.0015	0.0141	0.0311	-0.2820
6	-0.24	0.03	0.0410	0.0012	-0.0003	0.0403	-0.0087	-0.0505	-0.0015	0.0167	0.0307	-0.1302
7	0.24	0.02	0.0201	0.0004	0.0010	0.0473	0.0495	-0.0472	-0.0015	0.0182	0.0318	-0.3850
8	0.42	0.03	0.0304	0.0009	-0.0002	0.0308	-0.0077	-0.0405	-0.0009	0.0199	0.0222	-0.4915
9	1.36	0.02	0.0225	0.0004	0.0027	0.0378	0.1199	-0.0486	-0.0015	0.0246	0.0309	-0.5063
10	1.49	0.06	0.0225	0.0004	0.0027	0.0378	0.1199	-0.0310	-0.0021	0.0270	0.0693	-0.8700
11	2.41	0.03	0.0225	0.0008	0.0027	0.0378	0.1199	-0.0143	-0.0036	0.0333	0.2517	-2.3311
12	2.90	0.03	0.0235	0.0004	0.0059	0.0191	0.2524	-0.0044	-0.0051	0.0405	1.0623	-8.4376
13	3.40	0.04	0.0223	0.0004	0.0027	0.0202	0.1225	0.0046	-0.0061	0.0454	-0.7150	5.2751
14	3.47	0.04	0.0256	0.0003	0.0030	0.0137	0.1184	0.0258	-0.0075	0.0506	-0.2906	1.9611
15	4.36	0.06	0.0248	0.0002	0.0045	0.0101	0.1400	0.0416	-0.0089	0.0615	-0.2151	1.4774
16	4.43	0.01	0.0308	-0.0003	0.0059	-0.0097	0.1904	0.0628	-0.0100	0.0656	-0.1592	1.0450
17	5.30	0.06	0.0199	-0.0005	0.0070	-0.0251	0.3513	0.0792	-0.0111	0.0740	-0.1401	0.9342
18	5.74	0.03	0.0304	-0.0006	0.0065	-0.0147	0.2148	0.1029	-0.0123	0.0821	-0.1195	0.7977
19	6.24	-0.01	0.0305	-0.0010	0.0059	-0.0328	0.1922	0.1192	-0.0134	0.0904	-0.1124	0.7586
20	6.72	0.02	0.0291	-0.0010	0.0087	-0.0344	0.2989	0.1430	-0.0148	0.0985	-0.1035	0.6892
21	7.18	0.08	0.0318	-0.0014	0.0094	-0.0440	0.3081	0.1669	-0.0159	0.1060	-0.0952	0.6352
22	7.66	0.02	0.0357	-0.0014	0.0096	-0.0392	0.2404	0.1869	-0.0169	0.1123	-0.0904	0.6007
23	8.08	-0.01	0.0374	-0.0015	0.0114	-0.0414	0.1145	0.2062	-0.0176	0.1228	-0.0856	0.5956
24	8.53	-0.06	0.0357	-0.0014	0.0086	-0.0392	0.2408	0.2271	-0.0184	0.1267	-0.0810	0.5582
25	8.98	0.01	0.0421	-0.0015	0.0092	-0.0368	0.2192	0.2395	-0.0188	0.1362	-0.0787	0.5687
26	9.39	-0.03	0.0410	-0.0018	0.0114	-0.0451	0.2771	0.2778	-0.0196	0.1462	-0.0707	0.5261
27	9.81	0.03	0.0479	-0.0019	0.0113	-0.0407	0.2351	0.3236	-0.0195	0.1546	-0.0602	0.4778
28	10.24	0.08	0.0503	-0.0025	0.0131	-0.0407	0.2547	0.3374	-0.0202	0.1618	-0.0598	0.4796
29	10.66	0.07	0.0466	-0.0019	0.0142	-0.0418	0.3053	0.3649	-0.0203	0.1693	-0.0551	0.4590
30	11.07	0.08	0.0527	-0.0023	0.0155	-0.0436	0.2934	0.3849	-0.0209	0.1740	-0.0538	0.4576
31	11.48	0.02	0.0428	-0.0021	0.0153	-0.0505	0.3590	0.4211	-0.0216	0.1812	-0.0513	0.4303
32	11.49	-0.01	0.0442	-0.0023	0.0173	-0.0477	0.3581	0.4390	-0.0216	0.1927	-0.0493	0.4389
33	12.26	0.02	0.0446	-0.0022	0.0156	-0.0453	0.3250	0.4433	-0.0215	0.1912	-0.0486	0.4358
34	12.64	0.02	0.0444	-0.0022	0.0104	-0.0454	0.2144	0.4551	-0.0210	0.1967	-0.0462	0.4323
35	13.02	0.03	0.0440	-0.0022	0.0175	-0.0500	0.3969	0.4773	-0.0215	0.2042	-0.0451	0.4279
36	13.37	0.03	0.0442	-0.0021	0.0170	-0.0397	0.3129	0.5066	-0.0220	0.2088	-0.0435	0.4122
37	13.77	0.02	0.0507	-0.0033	0.0184	-0.0567	0.3729	0.5164	-0.0222	0.2133	-0.0430	0.4130
38	14.14	0.0	0.0472	-0.0024	0.0206	-0.0450	0.3716	0.5411	-0.0230	0.2147	-0.0425	0.4060
39	14.52	0.02	0.0471	-0.0041	0.0205	-0.0604	0.3927	0.5651	-0.0232	0.2237	-0.0411	0.4956
40	14.84	0.01	0.0461	-0.0024	0.0199	-0.0511	0.4408	0.5801	-0.0234	0.2298	-0.0404	0.3961
41	15.22	0.02	0.0541	-0.0033	0.0227	-0.0568	0.3900	0.6028	-0.0233	0.2353	-0.0386	0.3903
42	15.62	0.01	0.0528	-0.0026	0.0207	-0.0502	0.3919	0.6149	-0.0230	0.2393	-0.0375	0.3891
43	15.94	0.01	0.0589	-0.0021	0.0226	-0.0365	0.3841	0.6368	-0.0225	0.2444	-0.0354	0.3838
44	16.28	-0.02	0.0698	-0.0021	0.0215	-0.0308	0.3074	0.6719	-0.0223	0.2536	-0.0332	0.3774
45	16.62	0.02	0.0611	-0.0021	0.0252	-0.0352	0.4118	0.6853	-0.0217	0.2577	-0.0317	0.3761
46	16.97	0.02	0.0756	-0.0022	0.0235	-0.0291	0.3107	0.7094	-0.0210	0.2654	-0.0296	0.3741

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH 4X10-6												
PM1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 61 1.01 1.7 0.0 H2W1F12 15.400 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CM4	CH4	XCPF4	YCPF4
47	17.31	0.02	0.0612	-0.0021	0.0252	-0.0351	0.4116	0.7272	-0.0215	0.2700	-0.0296	0.3713
48	17.66	0.02	0.0613	-0.0018	0.0251	-0.0302	0.4099	0.7689	-0.0216	0.2758	-0.0281	0.3587
49	17.99	0.02	0.0791	-0.0017	0.0230	-0.0215	0.2907	0.7890	-0.0216	0.2841	-0.0274	0.3601
50	18.35	0.02	0.0705	-0.0014	0.0250	-0.0255	0.3545	0.8029	-0.0205	0.2863	-0.0256	0.3566
51	18.69	0.01	0.0851	-0.0013	0.0284	-0.0159	0.3332	0.8470	-0.0200	0.2918	-0.0238	0.3465
52	19.03	0.02	0.0874	-0.0016	0.0292	-0.0143	0.3344	0.8499	-0.0198	0.2996	-0.0233	0.3525
53	19.37	0.0	0.0873	-0.0013	0.0291	-0.0155	0.3332	0.8822	-0.0199	0.3050	-0.0225	0.3457
54	19.72	-0.01	0.0856	-0.0010	0.0317	-0.0117	0.3706	0.8987	-0.0199	0.3055	-0.0221	0.3399
55	20.04	0.0	0.0835	-0.0013	0.0330	-0.0156	0.3955	0.9053	-0.0198	0.3072	-0.0219	0.3393
56	20.38	0.01	0.0922	-0.0013	0.0315	-0.0141	0.3419	0.9184	-0.0199	0.3118	-0.0217	0.3395
57	20.72	-0.02	0.0861	-0.0006	0.0317	-0.0075	0.3641	0.9250	-0.0192	0.3125	-0.0207	0.3379
58	21.05	0.0	0.0835	-0.0017	0.0307	-0.0210	0.3679	0.9425	-0.0184	0.3177	-0.0195	0.3370
59	21.39	0.0	0.0847	-0.0011	0.0306	-0.0136	0.3615	0.9632	-0.0160	0.3209	-0.0167	0.3331
60	21.72	-0.02	0.0878	-0.0010	0.0326	-0.0170	0.3708	0.9756	-0.0151	0.3260	-0.0155	0.3341
61	22.07	-0.01	0.0884	-0.0007	0.0327	-0.0085	0.3674	0.9834	-0.0126	0.3293	-0.0129	0.3348
62	22.40	-0.02	0.0872	-0.0003	0.0355	-0.0040	0.4078	1.0058	-0.0133	0.3345	-0.0133	0.3325
63	22.74	0.0	0.0847	-0.0002	0.0338	-0.0030	0.3993	1.0308	-0.0147	0.3380	-0.0143	0.3279
64	23.07	-0.01	0.1033	-0.0001	0.0376	-0.0010	0.3642	1.0447	-0.0161	0.3428	-0.0155	0.3281
65	23.41	-0.02	0.0908	0.0002	0.0349	0.0028	0.3850	1.0636	-0.0187	0.3431	-0.0176	0.3226
66	23.73	-0.01	0.1134	0.0008	0.0369	0.0071	0.3253	1.0593	-0.0204	0.3486	-0.0193	0.3291
67	24.05	0.0	0.1047	0.0008	0.0397	0.0076	0.3741	1.0627	-0.0210	0.3484	-0.0198	0.3279
68	24.40	0.01	0.1043	0.0004	0.0396	0.0038	0.3802	1.0740	-0.0199	0.3492	-0.0185	0.3251
69	24.73	-0.02	0.1190	0.0016	0.0378	0.0134	0.3181	1.0938	-0.0194	0.3528	-0.0178	0.3225
70	25.08	-0.03	0.1153	0.0012	0.0382	0.0104	0.3315	1.1205	-0.0171	0.3571	-0.0153	0.3187
71	25.39	-0.03	0.1169	0.0022	0.0361	0.0188	0.3093	1.1374	-0.0168	0.3588	-0.0149	0.3169
72	25.70	-0.02	0.1060	0.0012	0.0367	0.0113	0.3464	1.1469	-0.0106	0.3623	-0.0092	0.3159
73	26.01	-0.03	0.1296	0.0023	0.0381	0.0181	0.2939	1.1878	-0.0092	0.3681	-0.0077	0.3099
74	26.31	-0.03	0.1293	0.0020	0.0388	0.0159	0.3000	1.2020	-0.0097	0.3738	-0.0081	0.3110
75	26.62	-0.03	0.1333	0.0022	0.0376	0.0169	0.2822	1.2160	-0.0094	0.3753	-0.0077	0.3086
76	26.95	-0.03	0.1265	0.0017	0.0370	0.0138	0.2929	1.2262	-0.0124	0.3736	-0.0101	0.3047
77	27.25	-0.03	0.1471	0.0026	0.0366	0.0140	0.2489	1.2485	-0.0111	0.3800	-0.0089	0.3044
78	27.57	-0.03	0.1326	0.0016	0.0376	0.0124	0.2834	1.2685	-0.0108	0.3803	-0.0086	0.2998
79	27.89	-0.04	0.1468	0.0032	0.0364	0.0221	0.2481	1.2782	-0.0098	0.3834	-0.0077	0.3000
80	28.21	-0.04	0.1407	0.0026	0.0353	0.0185	0.2508	1.3106	-0.0066	0.3871	-0.0050	0.2954
81	28.53	-0.05	0.1373	0.0032	0.0356	0.0233	0.2597	1.3134	-0.0045	0.3886	-0.0034	0.2959
82	28.84	-0.04	0.1438	0.0036	0.0361	0.0250	0.2512	1.3365	-0.0004	0.3872	-0.0003	0.2897
83	29.14	-0.04	0.1481	0.0048	0.0357	0.0374	0.2414	1.3442	0.0028	0.3924	0.0021	0.2914
84	29.47	-0.04	0.1448	0.0042	0.0363	0.0293	0.2510	1.3085	0.0136	0.3801	0.0104	0.2905
85	29.75	-0.04	0.1454	0.0042	0.0364	0.0292	0.2507	1.3171	0.0137	0.3818	0.0104	0.2899
86	30.09	-0.07	0.1517	0.0044	0.0385	0.0290	0.2541	1.3252	0.0152	0.3807	0.0115	0.2873
87	30.40	-0.03	0.1460	0.0042	0.0365	0.0291	0.2503	1.3439	0.0151	0.3834	0.0113	0.2853

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6 62 1.05 1.7 0.0 82W1F12 15.400 0 0 0 0 FIXED										
POINT	ALPHA	HFTA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.85	0.02	-0.6621	0.0141	0.0966	0.0298	0.0230	0.4016	-0.0213	
2	-2.73	0.03	-0.6650	0.0025	0.1507	-0.0650	0.0270	0.3992	-0.0039	
3	-2.67	0.03	-0.4355	-0.0971	0.1577	-0.0008	0.0270	0.4035	0.2230	
4	-1.44	0.02	-0.2913	-0.1512	0.1232	0.0445	0.0210	0.3952	0.5190	
5	-0.97	0.01	-0.1355	-0.1743	0.0146	0.1029	0.0340	0.3858	1.2863	
6	-0.32	0.03	-0.0256	-0.1051	0.1343	0.0210	0.0240	0.4199	4.1078	
7	0.25	0.03	0.1134	-0.0182	0.1449	-0.0449	0.0160	0.4420	-0.1521	
8	0.79	0.04	0.2084	-0.0105	0.1704	0.0574	0.0210	0.4646	-0.0501	
9	1.32	0.03	0.3339	0.0555	0.1327	-0.0001	0.0220	0.4784	0.1663	
10	1.87	0.03	0.5139	-0.0056	0.1737	-0.0017	0.0220	0.4754	-0.0109	
11	2.37	0.02	0.6719	-0.0448	0.1136	-0.0200	0.0170	0.4744	-0.0667	
12	2.97	0.04	0.7964	-0.1331	0.1709	0.0207	0.0240	0.4638	-0.1671	
13	3.35	0.06	0.9243	-0.1861	0.0949	-0.0249	0.0240	0.4562	-0.2014	
14	3.86	0.03	1.1191	-0.2984	0.1143	-0.1020	0.0310	0.4531	-0.2670	
15	4.34	0.04	1.2444	-0.3914	0.2606	-0.0818	0.0320	0.4488	-0.3133	
16	4.81	0.01	1.3986	-0.5103	0.1438	-0.1303	0.0410	0.4405	-0.3648	
17	5.27	0.0	1.5906	-0.7000	0.0009	0.0117	0.0320	0.4365	-0.4401	
18	5.77	0.0	1.7922	-0.8452	-0.0463	0.0508	0.0320	0.4267	-0.4716	
19	6.27	0.0	1.9311	-1.0418	0.0111	-0.0715	0.0320	0.4126	-0.5395	
20	6.64	0.02	2.0977	-1.1930	0.1038	-0.0223	0.0390	0.4064	-0.5687	
21	7.16	0.01	2.2619	-1.3154	-0.0742	0.0079	0.0280	0.4100	-0.5818	
22	7.64	0.02	2.4352	-1.4495	0.1399	-0.0848	0.0290	0.4082	-0.6158	
23	8.06	0.0	2.5497	-1.6478	0.1241	-0.0087	0.0310	0.4305	-0.6463	
24	8.50	0.05	2.7266	-1.7926	0.2460	-0.1244	0.0240	0.4263	-0.6574	
25	8.96	0.06	2.9202	-1.9446	0.2554	-0.0211	0.0310	0.4368	-0.6659	
26	9.37	0.01	3.0554	-2.1448	0.0547	-0.0476	0.0380	0.4153	-0.7020	
27	9.79	0.03	3.2082	-2.3047	0.0956	-0.0262	0.0310	0.4055	-0.7184	
28	10.22	0.0	3.3382	-2.3837	0.1479	0.0479	0.0370	0.3897	-0.7141	
29	10.63	0.07	3.4439	-2.5428	0.1771	-0.0359	0.0370	0.3745	-0.7278	
30	11.06	0.06	3.6527	-2.6771	0.2045	0.0117	0.0370	0.3869	-0.7329	
31	11.48	0.05	3.7817	-2.8547	0.1523	-0.1052	0.0320	0.3549	-0.7045	
32	11.87	0.03	3.9084	-2.7891	0.0920	0.0182	0.0320	0.3574	-0.7136	
33	12.26	0.04	4.1344	-3.0555	0.0989	-0.0275	0.0410	0.3849	-0.7390	
34	12.62	0.03	4.2609	-3.2767	0.0349	0.0401	0.0360	0.3998	-0.7690	
35	12.98	0.04	4.4290	-3.5170	0.0495	0.0187	0.0440	0.4129	-0.7941	
36	13.36	0.02	4.5502	-3.5297	0.1312	-0.0867	0.0410	0.4097	-0.7757	
37	13.72	0.01	4.7160	-3.8027	0.0464	-0.0825	0.0350	0.4146	-0.8064	
38	14.12	0.03	4.9053	-3.8828	0.1541	0.0373	0.0390	0.4052	-0.7915	
39	14.48	0.02	5.0273	-3.9447	0.0889	0.0145	0.0370	0.3932	-0.7946	
40	14.83	0.02	5.1609	-4.1027	0.0775	0.1275	0.0580	0.3968	-0.7650	
41	15.21	0.0	5.3414	-4.3494	0.0141	-0.0067	0.0520	0.3944	-0.8143	
42	15.59	0.02	5.4521	-4.4283	0.0784	0.0712	0.0440	0.4024	-0.8122	
43	15.94	0.03	5.6041	-4.6461	0.1714	-0.0150	0.0310	0.3945	-0.8291	
44	16.30	0.0	5.8000	-4.7515	0.0822	0.0159	0.0370	0.3885	-0.8192	
45	16.64	0.01	5.9532	-4.8880	0.0865	-0.0161	0.0350	0.3845	-0.8211	
46	16.98	0.03	6.0527	-4.9453	0.1688	0.0127	0.0310	0.3556	-0.8170	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART	MACH	Re10-6	PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	6P	1.05	1.7	0.0	M21F12	15.400	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	17.32	0.0	6.1936	-5.1355	0.0288	0.0727	0.0300	0.3611	-0.8292	
48	17.67	-0.02	6.3861	-5.2790	0.0101	0.0359	0.0260	0.3466	-0.8266	
49	17.99	0.02	6.5258	-5.4987	0.0870	0.0472	0.0210	0.3522	-0.8426	
50	18.35	-0.01	6.6517	-5.6089	0.0488	0.0427	0.0310	0.3346	-0.8432	
51	18.68	0.02	6.4098	-5.7832	0.0173	0.2078	0.0240	0.3242	-0.8442	
52	19.02	0.01	6.4756	-5.8703	0.0336	0.0660	0.0710	0.3102	-0.8416	
53	19.36	0.03	7.0664	-5.9604	0.1362	0.0393	0.0230	0.3042	-0.8435	
54	19.70	0.03	7.2452	-6.1757	0.1398	0.0963	0.0170	0.3118	-0.8524	
55	20.03	0.01	7.3333	-6.2882	0.1543	0.0310	0.0110	0.2966	-0.8575	
56	20.36	-0.01	7.5562	-6.5412	0.0671	0.0291	0.0010	0.3257	-0.8657	
57	20.71	-0.01	7.6854	-6.7081	0.0353	0.0626	-0.0040	0.3245	-0.8728	
58	21.06	0.02	7.8324	-6.8439	0.1280	0.0088	-0.0040	0.3377	-0.8738	
59	21.41	-0.02	7.9550	-6.8845	-0.0375	0.1255	0.0010	0.3339	-0.8661	
60	21.75	0.02	8.0627	-6.9434	0.1214	0.0030	0.0140	0.3348	-0.8612	
61	22.10	-0.02	8.2093	-6.9746	0.0712	-0.0637	-0.0090	0.3248	-0.8496	
62	22.45	-0.01	8.4021	-7.0206	0.0270	0.0092	-0.0040	0.3336	-0.8356	
63	22.76	0.01	8.4659	-7.0689	0.1823	0.0068	-0.0150	0.3243	-0.8409	
64	23.09	-0.01	8.5346	-7.1290	0.0811	-0.0145	-0.0050	0.3143	-0.8350	
65	23.41	-0.02	8.6447	-7.1732	0.0857	0.0890	-0.0170	0.3072	-0.8245	
66	23.74	-0.03	8.9043	-7.1848	0.0189	0.0715	-0.0430	0.3027	-0.8013	
67	24.06	-0.02	8.9384	-7.1615	0.1294	0.0121	-0.0430	0.2905	-0.8012	
68	24.40	-0.02	9.2131	-7.2511	0.0289	0.2125	-0.0340	0.2996	-0.7870	
69	24.76	-0.03	9.3846	-7.3062	-0.0277	0.1618	-0.0430	0.2961	-0.7785	
70	25.07	-0.02	9.4813	-7.4175	0.0710	0.1196	-0.0610	0.3075	-0.7823	
71	25.38	-0.03	9.5136	-7.4567	0.0462	0.0715	-0.0610	0.3086	-0.7838	
72	25.73	-0.02	9.7320	-7.4476	0.0903	0.0446	-0.0660	0.3184	-0.7653	
73	26.04	-0.01	9.8382	-7.4435	0.0367	0.1506	-0.0690	0.3067	-0.7567	
74	26.45	-0.03	10.0176	-7.4445	-0.0354	0.2005	-0.0680	0.3143	-0.7431	
75	26.71	-0.02	10.1405	-7.4035	-0.0069	0.4526	-0.0420	0.3171	-0.7265	
76	26.96	-0.03	10.2772	-7.5019	0.0183	0.3423	-0.0430	0.3074	-0.7300	
77	27.29	-0.04	10.4511	-7.5185	-0.0754	0.4015	-0.0630	0.3045	-0.7194	
78	27.60	-0.03	10.5494	-7.6907	-0.0280	0.4261	-0.0710	0.2953	-0.7240	
79	27.94	-0.04	10.8043	-7.4574	-0.2731	0.8572	-0.0560	0.2817	-0.7270	
80	28.22	-0.03	10.8707	-7.6869	-0.0394	0.4508	-0.0830	0.2696	-0.7255	
81	28.53	-0.05	11.0737	-7.9931	-0.2104	0.5125	-0.0840	0.2544	-0.7218	
82	28.86	-0.05	11.1924	-7.9344	-0.2644	0.6641	-0.0940	0.2350	-0.7084	
83	29.17	-0.02	11.3843	-7.9447	-0.1783	0.8955	-0.1150	0.2245	-0.7024	
84	29.50	-0.04	11.5410	-7.9314	-0.1814	0.8854	-0.1270	0.2022	-0.6866	
85	29.80	-0.02	11.6878	-8.0270	0.0411	0.4304	-0.1300	0.2102	-0.6880	
86	30.15	0.0	11.9686	-8.2402	-0.0502	1.0001	-0.1350	0.2133	-0.6885	
87	30.45	-0.03	12.0440	-8.2087	-0.1582	0.8094	-0.1290	0.1946	-0.6816	
88	30.77	-0.08	12.1716	-8.2684	-0.5323	0.7493	-0.1260	0.1946	-0.6793	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	W	X	Y	Z	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
62	1.05	1.7				0.0	M2W112	15.400	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CHI2	CHI2	XCPF2	YCPF2	
1	-2.85	0.02	0.0436	-0.0002	-0.0054	-0.0057	-0.1347	-0.0289	0.0027	-0.0277	-0.0934	0.9595	
2	-2.73	0.03	0.0456	-0.0005	-0.0043	-0.0110	-0.0944	-0.0279	0.0025	-0.0265	-0.0914	0.9497	
3	-2.07	0.03	0.0448	-0.0003	-0.0060	-0.0078	-0.1333	-0.0124	0.0005	-0.0192	-0.0443	1.5510	
4	-1.44	0.02	0.0474	0.0001	-0.0061	0.0040	-0.1402	0.0006	-0.0006	-0.0176	-0.9998	-21.0001	
5	-0.87	0.01	0.0437	-0.0002	-0.0058	-0.0057	-0.1336	0.0114	-0.0012	-0.0083	-0.1096	-0.7282	
6	-0.32	0.03	0.0440	-0.0000	-0.0059	-0.0011	-0.1350	0.0136	-0.0006	-0.0073	-0.0478	-0.5344	
7	0.25	0.03	0.0494	-0.0004	-0.0036	-0.0091	-0.0737	0.0187	0.0002	-0.0072	0.0134	-0.3834	
8	0.74	0.04	0.0443	-0.0006	-0.0037	-0.0110	-0.0683	0.0167	0.0007	-0.0048	0.0419	-0.2895	
9	1.32	0.03	0.0460	-0.0005	-0.0029	-0.0185	-0.0624	0.0252	0.0002	-0.0019	0.0099	-0.0755	
10	1.47	0.03	0.0485	-0.0009	-0.0042	-0.0146	-0.0874	0.0349	-0.0002	0.0070	-0.0057	0.0581	
11	2.37	0.02	0.0447	-0.0008	-0.0023	-0.0171	-0.0471	0.0468	-0.0014	0.0077	-0.0299	0.1644	
12	2.87	0.04	0.0501	-0.0006	-0.0026	-0.0120	-0.0520	0.0544	-0.0025	0.0133	-0.0455	0.2421	
13	3.35	0.06	0.0525	-0.0006	-0.0028	-0.0124	-0.0535	0.0649	-0.0032	0.0184	-0.0486	0.2749	
14	4.86	0.03	0.0542	-0.0005	-0.0037	-0.0092	-0.0640	0.0862	-0.0050	0.0268	-0.0580	0.3112	
15	4.34	0.04	0.0617	-0.0005	-0.0037	-0.0049	-0.0606	0.1023	-0.0056	0.0316	-0.0552	0.3088	
16	4.81	0.01	0.0541	-0.0004	-0.0033	-0.0069	-0.0575	0.1204	-0.0067	0.0389	-0.0561	0.3232	
17	5.27	0.0	0.0622	-0.0003	-0.0047	-0.0048	-0.0751	0.1380	-0.0088	0.0493	-0.0641	0.3571	
18	5.77	0.0	0.0586	-0.0002	-0.0045	-0.0043	-0.0763	0.1563	-0.0102	0.0576	-0.0656	0.3684	
19	6.22	0.0	0.0595	-0.0001	-0.0049	-0.0017	-0.1155	0.1759	-0.0114	0.0653	-0.0671	0.3713	
20	6.69	0.02	0.0630	-0.0004	-0.0049	-0.0127	-0.0779	0.2015	-0.0121	0.0763	-0.0600	0.3789	
21	7.16	0.01	0.0670	-0.0007	-0.0051	-0.0112	-0.0757	0.2226	-0.0128	0.0840	-0.0577	0.3772	
22	7.64	0.02	0.0634	-0.0006	-0.0054	-0.0103	-0.0848	0.2420	-0.0139	0.0931	-0.0574	0.3849	
23	8.06	0.0	0.0573	-0.0002	-0.0056	0.0035	-0.1153	0.2557	-0.0152	0.0978	-0.0596	0.3825	
24	8.50	0.05	0.0655	-0.0001	-0.0055	-0.0023	-0.0836	0.2813	-0.0156	0.1072	-0.0561	0.3812	
25	8.96	0.06	0.0641	-0.0002	-0.0051	-0.0039	-0.0802	0.3060	-0.0173	0.1158	-0.0565	0.3783	
26	9.37	0.01	0.0659	-0.0007	-0.0056	-0.0114	-0.0846	0.3252	-0.0154	0.1233	-0.0475	0.3790	
27	9.79	0.03	0.0647	-0.0007	-0.0061	-0.0116	-0.0949	0.3497	-0.0156	0.1321	-0.0447	0.3778	
28	10.22	0.0	0.0563	-0.0004	-0.0064	-0.0060	-0.1144	0.3615	-0.0148	0.1380	-0.0409	0.3816	
29	10.63	0.07	0.0603	-0.0004	-0.0068	-0.0056	-0.1129	0.3819	-0.0146	0.1438	-0.0383	0.3764	
30	11.06	0.06	0.0542	-0.0002	-0.0059	-0.0042	-0.0992	0.4016	-0.0154	0.1517	-0.0386	0.3779	
31	11.46	0.09	0.0598	0.0	-0.0069	0.0	-0.1149	0.4128	-0.0155	0.1588	-0.0375	0.3797	
32	11.97	0.03	0.0600	0.0000	-0.0069	0.0008	-0.1151	0.4306	-0.0157	0.1615	-0.0366	0.3750	
33	12.26	0.04	0.0640	0.0003	-0.0041	0.0047	-0.0637	0.4567	-0.0170	0.1734	-0.0373	0.3796	
34	12.62	0.03	0.0543	0.0005	-0.0063	0.0092	-0.1161	0.4767	-0.0180	0.1802	-0.0377	0.3781	
35	12.98	0.04	0.0597	0.0008	-0.0058	0.0142	-0.0973	0.4990	-0.0190	0.1864	-0.0382	0.3735	
36	13.36	0.02	0.0644	0.0008	-0.0041	0.0132	-0.0643	0.5067	-0.0187	0.1887	-0.0370	0.3725	
37	13.72	0.01	0.0594	0.0014	-0.0070	0.0234	-0.1180	0.5243	-0.0200	0.1940	-0.0378	0.3673	
38	14.12	0.03	0.0636	0.0012	-0.0033	0.0197	-0.0520	0.5400	-0.0197	0.1985	-0.0366	0.3677	
39	14.48	0.02	0.0560	0.0011	-0.0054	0.0196	-0.0971	0.5518	-0.0186	0.2027	-0.0337	0.3673	
40	14.83	0.02	0.0523	0.0016	-0.0093	0.0306	-0.1773	0.5672	-0.0186	0.2078	-0.0328	0.3664	
41	15.21	0.0	0.0582	0.0019	-0.0067	0.0338	-0.1187	0.5846	-0.0192	0.2107	-0.0328	0.3604	
42	15.59	0.02	0.0506	0.0021	-0.0067	0.0425	-0.1727	0.6047	-0.0198	0.2166	-0.0328	0.3582	
43	15.94	0.03	0.0559	0.0023	-0.0070	0.0413	-0.1237	0.6204	-0.0195	0.2212	-0.0315	0.3566	
44	16.30	0.0	0.0535	0.0024	-0.0096	0.0449	-0.1784	0.6336	-0.0185	0.2222	-0.0292	0.3507	
45	16.64	0.01	0.0487	0.0024	-0.0112	0.0503	-0.2294	0.6536	-0.0174	0.2270	-0.0274	0.3473	
46	16.98	0.03	0.0399	0.0030	-0.0144	0.0764	-0.3736	0.6635	-0.0176	0.2316	-0.0266	0.3490	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH HTIO-6												
6 67 1.05 1.7 0.0 H2W1P12 15.400 0 0 0 0 0 FIXED												
POINT	ALPHA	HE1A	CONF1	CH1	CH1	XCPF1	YCPF1	CONF2	CH2	CH2	XCPF2	YCPF2
47	17.32	0.0	0.0397	0.0029	-0.0147	0.0730	-0.3696	0.6849	-0.0163	0.2379	-0.0238	0.3474
48	17.57	-0.02	0.0308	0.0029	-0.0151	0.0941	-0.4915	0.7118	-0.0156	0.2415	-0.0220	0.3393
49	17.94	0.02	0.0307	0.0028	-0.0154	0.0912	-0.5137	0.7291	-0.0148	0.2481	-0.0203	0.3403
50	18.35	-0.01	0.0233	0.0024	-0.0180	0.1202	-0.7741	0.7469	-0.0154	0.2521	-0.0207	0.3375
51	18.68	0.02	0.0228	0.0024	-0.0180	0.1074	-0.7896	0.7625	-0.0154	0.2574	-0.0202	0.3375
52	19.02	0.01	0.0220	0.0021	-0.0157	0.0977	-0.7127	0.7778	-0.0157	0.2670	-0.0202	0.3368
53	19.36	0.03	0.0138	0.0024	-0.0185	0.1739	-1.3407	0.7984	-0.0155	0.2651	-0.0194	0.3321
54	19.70	0.03	0.0167	0.0019	-0.0172	0.1138	-1.0321	0.8223	-0.0154	0.2719	-0.0187	0.3307
55	20.03	0.01	0.0049	0.0020	-0.0196	0.2970	-2.8407	0.8357	-0.0154	0.2772	-0.0185	0.3317
56	20.36	-0.01	0.0139	0.0018	-0.0171	0.1295	-1.2779	0.8634	-0.0141	0.2840	-0.0164	0.3289
57	20.71	-0.01	0.0174	0.0022	-0.0203	0.1774	-1.6345	0.8832	-0.0131	0.2875	-0.0149	0.3255
58	21.06	0.02	0.0042	0.0026	-0.0221	0.3231	-2.6912	0.9019	-0.0134	0.2923	-0.0149	0.3241
59	21.41	-0.02	0.0129	0.0026	-0.0194	0.2015	-1.5040	0.9172	-0.0145	0.2966	-0.0159	0.3234
60	21.75	0.02	0.0124	0.0024	-0.0214	0.2719	-1.7232	0.9197	-0.0153	0.2977	-0.0167	0.3236
61	22.10	-0.02	0.0060	0.0024	-0.0217	0.4916	-3.6168	0.9336	-0.0163	0.2999	-0.0175	0.3212
62	22.45	-0.01	0.0108	0.0028	-0.0209	0.2542	-1.9353	0.9389	-0.0166	0.3022	-0.0198	0.3218
63	22.76	0.01	0.0065	0.0031	-0.0234	0.4845	-3.6052	0.9488	-0.0171	0.3045	-0.0181	0.3209
64	23.09	-0.01	0.0022	0.0036	-0.0235	1.6361	-10.6668	0.9541	-0.0188	0.3058	-0.0197	0.3205
65	23.41	-0.02	-0.0062	0.0037	-0.0310	-0.4511	3.7844	0.9688	-0.0172	0.3099	-0.0178	0.3199
66	23.74	-0.03	-0.0096	0.0029	-0.0273	-0.3010	2.7822	0.9804	-0.0182	0.3121	-0.0186	0.3183
67	24.06	-0.02	-0.0120	0.0023	-0.0267	-0.1916	2.3499	0.9872	-0.0183	0.3125	-0.0185	0.3165
68	24.42	-0.02	-0.0174	0.0024	-0.0342	-0.1408	1.9654	0.9931	-0.0193	0.3152	-0.0195	0.3174
69	24.76	-0.03	-0.0326	0.0020	-0.0403	-0.0629	1.2351	1.0009	-0.0200	0.3164	-0.0200	0.3151
70	25.07	-0.02	-0.0300	0.0021	-0.0396	-0.0717	1.3199	1.0141	-0.0214	0.3210	-0.0211	0.3166
71	25.38	-0.03	-0.0348	0.0012	-0.0433	-0.0301	1.0870	1.0142	-0.0222	0.3193	-0.0219	0.3148
72	25.73	-0.02	-0.0499	0.0001	-0.0467	-0.0020	0.9364	1.0123	-0.0234	0.3183	-0.0231	0.3144
73	26.04	-0.01	-0.0541	-0.0012	-0.0485	0.0215	0.8341	1.0194	-0.0236	0.3189	-0.0232	0.3128
74	26.35	-0.03	-0.0558	-0.0012	-0.0461	0.0215	0.8260	1.0219	-0.0248	0.3203	-0.0243	0.3135
75	26.71	-0.02	-0.0732	-0.0034	-0.0499	0.0526	0.6816	1.0222	-0.0255	0.3212	-0.0249	0.3142
76	26.98	-0.03	-0.0548	-0.0050	-0.0403	0.0912	0.7347	1.0300	-0.0264	0.3218	-0.0256	0.3124
77	27.29	-0.04	-0.0835	-0.0061	-0.0470	0.0738	0.5632	1.0502	-0.0267	0.3263	-0.0254	0.3107
78	27.60	-0.03	-0.0794	-0.0059	-0.0453	0.0741	0.5694	1.0630	-0.0273	0.3284	-0.0257	0.3089
79	27.94	-0.04	-0.1108	-0.0120	-0.0449	0.1043	0.4054	1.0760	-0.0259	0.3345	-0.0241	0.3109
80	28.22	-0.03	-0.0980	-0.0099	-0.0425	0.1015	0.4382	1.0864	-0.0260	0.3354	-0.0239	0.3087
81	28.53	-0.05	-0.0879	-0.0102	-0.0364	0.1234	0.4394	1.1027	-0.0249	0.3415	-0.0226	0.3098
82	28.86	-0.05	-0.0917	-0.0119	-0.0396	0.1303	0.4325	1.1219	-0.0234	0.3451	-0.0209	0.3076
83	29.17	-0.02	-0.1064	-0.0153	-0.0358	0.1438	0.3370	1.1410	-0.0232	0.3526	-0.0203	0.3090
84	29.50	-0.04	-0.0945	-0.0133	-0.0361	0.1407	0.3819	1.1474	-0.0230	0.3524	-0.0201	0.3070
85	29.80	-0.02	-0.0943	-0.0127	-0.0392	0.1292	0.3993	1.1567	-0.0235	0.3550	-0.0203	0.3069
86	30.15	0.0	-0.1280	-0.0157	-0.0428	0.1276	0.3348	1.1651	-0.0234	0.3586	-0.0201	0.3077
87	30.45	-0.03	-0.0788	-0.0112	-0.0238	0.1427	0.3015	1.1877	-0.0215	0.3643	-0.0181	0.3067
88	30.77	-0.08	-0.1257	-0.0161	-0.0358	0.1281	0.2847	1.1857	-0.0226	0.3620	-0.0191	0.3053

PAGE 3 OF 3
SHEET 1 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
N 62 1.05 1.7			0.0	82WIF12	15.400	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	-2.85	0.02	0.0217	0.0008	0.0026	0.0369	0.1212	-0.0792	-0.0014	0.0018	0.0183	-0.0228
2	-2.73	0.03	0.0217	0.0008	0.0026	0.0369	0.1212	-0.0757	-0.0009	0.0008	0.0125	-0.0102
3	-2.07	0.03	0.0217	0.0008	0.0026	0.0369	0.1212	-0.0565	-0.0033	0.0085	0.0584	-0.1500
4	-1.44	0.02	0.0183	0.0009	0.0030	0.0442	0.1638	-0.0479	-0.0043	0.0160	0.0998	-0.3344
5	-0.87	0.01	0.0144	0.0012	0.0030	0.0652	0.1647	-0.0346	-0.0040	0.0182	0.1170	-0.5252
6	-0.32	0.03	0.0182	0.0005	0.0030	0.0302	0.1629	-0.0347	-0.0043	0.0188	0.1253	-0.5429
7	0.25	0.03	0.0143	0.0012	0.0048	0.0839	0.3332	-0.0347	-0.0021	0.0163	0.0605	-0.4708
8	0.79	0.04	0.0127	0.0004	0.0054	0.0669	0.4277	-0.0320	-0.0024	0.0202	0.0765	-0.6324
9	1.32	0.03	0.0112	0.0004	0.0038	0.0157	0.3421	-0.0251	-0.0032	0.0213	0.1275	-0.8501
10	1.87	0.03	0.0153	0.0004	0.0021	0.0261	0.1371	-0.0050	-0.0040	0.0251	0.8099	-5.0268
11	2.37	0.02	0.0180	0.0003	0.0031	0.0194	0.1721	-0.0026	-0.0054	0.0309	2.0766	-11.8976
12	2.87	0.04	0.0203	0.0000	0.0047	0.0025	0.2248	0.0166	-0.0068	0.0391	-0.4126	2.3573
13	3.35	0.06	0.0201	0.0003	0.0053	0.0174	0.2636	0.0295	-0.0076	0.0437	-0.2576	1.4824
14	3.86	0.03	0.0193	0.0000	0.0067	0.0026	0.3488	0.0589	-0.0095	0.0532	-0.1613	0.9037
15	4.34	0.04	0.0177	-0.0003	0.0095	-0.0169	0.5366	0.0716	-0.0105	0.0590	-0.1473	0.8244
16	4.81	0.01	0.0203	-0.0008	0.0105	-0.0419	0.5155	0.0864	-0.0106	0.0696	-0.1232	0.8054
17	5.27	0.0	0.0241	-0.0008	0.0093	-0.0353	0.3872	0.1160	-0.0126	0.0783	-0.1090	0.6755
18	5.77	0.0	0.0279	-0.0009	0.0083	-0.0340	0.2974	0.1358	-0.0137	0.0848	-0.1009	0.6248
19	6.22	0.0	0.0290	-0.0015	0.0121	-0.0517	0.4160	0.1612	-0.0154	0.0966	-0.0955	0.5993
20	6.69	0.02	0.0229	-0.0013	0.0115	-0.0568	0.5035	0.1876	-0.0149	0.1036	-0.0794	0.5523
21	7.16	0.01	0.0259	-0.0011	0.0104	-0.0427	0.3853	0.1967	-0.0156	0.1113	-0.0793	0.5661
22	7.64	0.02	0.0252	-0.0019	0.0132	-0.0754	0.5237	0.2366	-0.0174	0.1221	-0.0737	0.5162
23	8.06	0.0	0.0356	-0.0014	0.0121	-0.0534	0.3388	0.2599	-0.0195	0.1287	-0.0750	0.4952
24	8.50	0.05	0.0309	-0.0024	0.0145	-0.0793	0.4691	0.2685	-0.0197	0.1369	-0.0735	0.5101
25	8.96	0.06	0.0372	-0.0023	0.0150	-0.0632	0.4031	0.3016	-0.0213	0.1454	-0.0706	0.4820
26	9.37	0.01	0.0357	-0.0027	0.0157	-0.0736	0.4286	0.3311	-0.0200	0.1523	-0.0605	0.4600
27	9.79	0.03	0.0357	-0.0028	0.0181	-0.0723	0.4676	0.3639	-0.0198	0.1608	-0.0545	0.4417
28	10.22	0.0	0.0306	-0.0021	0.0154	-0.0702	0.5031	0.3764	-0.0186	0.1654	-0.0495	0.4395
29	10.63	0.07	0.0215	-0.0024	0.0201	-0.1139	0.4332	0.3923	-0.0183	0.1743	-0.0468	0.4443
30	11.06	0.06	0.0358	-0.0024	0.0178	-0.0670	0.4980	0.4189	-0.0191	0.1812	-0.0457	0.4325
31	11.48	0.09	0.0308	-0.0028	0.0210	-0.0909	0.6806	0.4327	-0.0192	0.1841	-0.0444	0.4254
32	11.97	0.03	0.0254	-0.0024	0.0191	-0.0964	0.7505	0.4434	-0.0189	0.1897	-0.0426	0.4279
33	12.26	0.04	0.0309	-0.0027	0.0211	-0.0874	0.6827	0.4798	-0.0194	0.2019	-0.0405	0.4207
34	12.62	0.03	0.0429	-0.0026	0.0236	-0.0606	0.5500	0.5234	-0.0208	0.2104	-0.0398	0.4017
35	12.98	0.04	0.0472	-0.0027	0.0210	-0.0583	0.4455	0.5422	-0.0221	0.2148	-0.0407	0.3961
36	13.36	0.02	0.0225	-0.0032	0.0230	-0.0609	0.4380	0.5615	-0.0211	0.2182	-0.0377	0.3886
37	13.72	0.01	0.0542	-0.0032	0.0260	-0.0590	0.4790	0.5846	-0.0229	0.2260	-0.0392	0.3866
38	14.12	0.03	0.0410	-0.0031	0.0262	-0.0756	0.6381	0.5930	-0.0212	0.2309	-0.0358	0.3894
39	14.48	0.02	0.0410	-0.0030	0.0262	-0.0732	0.6381	0.6053	-0.0204	0.2354	-0.0337	0.3889
40	14.83	0.02	0.0334	-0.0027	0.0219	-0.0823	0.6466	0.6246	-0.0204	0.2389	-0.0327	0.3825
41	15.21	0.0	0.0578	-0.0036	0.0249	-0.0631	0.4301	0.6488	-0.0208	0.2457	-0.0316	0.3730
42	15.59	0.02	0.0606	-0.0035	0.0259	-0.0586	0.4273	0.6683	-0.0215	0.2508	-0.0322	0.3757
43	15.94	0.03	0.0629	-0.0035	0.0276	-0.0564	0.4381	0.6914	-0.0210	0.2540	-0.0304	0.3673
44	16.30	0.0	0.0625	-0.0035	0.0281	-0.0568	0.4500	0.7100	-0.0196	0.2575	-0.0276	0.3626
45	16.64	0.01	0.0594	-0.0027	0.0285	-0.0454	0.4797	0.7122	-0.0192	0.2627	-0.0270	0.3689
46	16.98	0.03	0.0528	-0.0027	0.0286	-0.0411	0.5415	0.7184	-0.0192	0.2651	-0.0267	0.3688

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 62 1.05 1.7			0.0	R2W1F12	15.400	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	CM3	XCMP3	YCPF3	CNF4	CM4	CM4	XCMP4	YCPF4
47	17.32	0.0	0.0508	-0.0026	0.0262	-0.0517	0.5163	0.7423	-0.0179	0.2699	-0.0242	0.3637
48	17.67	-0.02	0.0632	-0.0027	0.0275	-0.0477	0.4345	0.7697	-0.0186	0.2729	-0.0242	0.3545
49	17.99	0.02	0.0609	-0.0025	0.0322	-0.0419	0.5286	0.7921	-0.0180	0.2870	-0.0227	0.3561
50	18.35	-0.01	0.0586	-0.0021	0.0305	-0.0358	0.5209	0.8195	-0.0184	0.2844	-0.0224	0.3470
51	18.66	0.02	0.0650	-0.0020	0.0311	-0.0308	0.4778	0.8363	-0.0178	0.2901	-0.0213	0.3468
52	19.02	0.01	0.0706	-0.0017	0.0330	-0.0241	0.4678	0.8461	-0.0179	0.2946	-0.0212	0.3482
53	19.36	0.03	0.0718	-0.0016	0.0310	-0.0223	0.4321	0.8460	-0.0180	0.2993	-0.0209	0.3464
54	19.70	0.03	0.0708	-0.0016	0.0331	-0.0226	0.4674	0.8442	-0.0178	0.3045	-0.0200	0.3405
55	20.03	0.01	0.0654	-0.0011	0.0311	-0.0176	0.4754	0.9111	-0.0177	0.3068	-0.0195	0.3367
56	20.36	-0.01	0.0641	-0.0011	0.0349	-0.0132	0.4199	0.9447	-0.0165	0.3115	-0.0175	0.3297
57	20.71	-0.01	0.0748	-0.0012	0.0367	-0.0159	0.4652	0.9600	-0.0165	0.3147	-0.0172	0.3320
58	21.06	0.02	0.0810	-0.0012	0.0381	-0.0154	0.4703	0.9802	-0.0171	0.3235	-0.0175	0.3301
59	21.41	-0.02	0.0890	-0.0010	0.0351	-0.0118	0.3950	1.0069	-0.0179	0.3230	-0.0178	0.3208
60	21.75	0.02	0.0844	-0.0010	0.0362	-0.0124	0.4263	1.0099	-0.0189	0.3288	-0.0187	0.3254
61	22.10	-0.02	0.0941	-0.0012	0.0434	-0.0128	0.4614	1.0245	-0.0199	0.3317	-0.0194	0.3231
62	22.45	-0.01	0.0863	-0.0006	0.0397	-0.0075	0.4607	1.0286	-0.0204	0.3322	-0.0199	0.3229
63	22.76	0.01	0.0888	-0.0009	0.0407	-0.0107	0.4542	1.0340	-0.0208	0.3333	-0.0202	0.3224
64	23.09	-0.01	0.0941	-0.0006	0.0432	-0.0064	0.4597	1.0538	-0.0205	0.3371	-0.0194	0.3199
65	23.41	-0.02	0.0888	-0.0003	0.0349	-0.0034	0.3429	1.0509	-0.0208	0.3351	-0.0198	0.3188
66	23.74	-0.03	0.0865	0.0003	0.0396	0.0035	0.4581	1.0536	-0.0199	0.3372	-0.0184	0.3200
67	24.06	-0.02	0.1038	0.0008	0.0387	0.0077	0.3727	1.0610	-0.0196	0.3364	-0.0185	0.3171
68	24.42	-0.02	0.1122	0.0004	0.0406	0.0040	0.3617	1.0892	-0.0204	0.3397	-0.0187	0.3119
69	24.76	-0.03	0.1144	0.0008	0.0429	0.0074	0.3752	1.0991	-0.0206	0.3422	-0.0187	0.3114
70	25.07	-0.02	0.1182	0.0016	0.0425	0.0135	0.3544	1.1032	-0.0223	0.3445	-0.0202	0.3123
71	25.38	-0.03	0.1307	0.0012	0.0428	0.0096	0.3279	1.1178	-0.0216	0.3476	-0.0194	0.3109
72	25.73	-0.02	0.1465	0.0020	0.0497	0.0136	0.3394	1.1353	-0.0212	0.3506	-0.0187	0.3088
73	26.04	-0.01	0.1394	0.0012	0.0435	0.0090	0.3124	1.1326	-0.0197	0.3506	-0.0174	0.3096
74	26.35	-0.03	0.1358	0.0016	0.0445	0.0121	0.3241	1.1428	-0.0202	0.3518	-0.0177	0.3078
75	26.71	-0.02	0.1288	0.0012	0.0383	0.0093	0.2975	1.1667	-0.0191	0.3553	-0.0164	0.3045
76	26.98	-0.03	0.1336	0.0012	0.0415	0.0094	0.3108	1.1730	-0.0192	0.3582	-0.0164	0.3053
77	27.29	-0.04	0.1290	0.0016	0.0446	0.0128	0.3455	1.2091	-0.0179	0.3642	-0.0148	0.3012
78	27.60	-0.03	0.1277	0.0014	0.0409	0.0149	0.3207	1.2056	-0.0186	0.3652	-0.0154	0.3029
79	27.94	-0.04	0.1186	0.0008	0.0345	0.0067	0.3332	1.2603	-0.0166	0.3715	-0.0132	0.2948
80	28.22	-0.03	0.1399	0.0018	0.0435	0.0132	0.3111	1.2561	-0.0163	0.3752	-0.0130	0.2987
81	28.53	-0.05	0.1425	0.0025	0.0396	0.0179	0.2778	1.2652	-0.0154	0.3758	-0.0122	0.2970
82	28.86	-0.05	0.1323	0.0022	0.0408	0.0166	0.3083	1.2876	-0.0135	0.3777	-0.0105	0.2934
83	29.17	-0.02	0.1252	0.0016	0.0393	0.0130	0.3194	1.3072	-0.0116	0.3849	-0.0089	0.2944
84	29.50	-0.04	0.1458	0.0026	0.0407	0.0178	0.2740	1.3289	-0.0098	0.3872	-0.0074	0.2914
85	29.80	-0.02	0.1421	0.0026	0.0416	0.0197	0.2931	1.3489	-0.0089	0.3898	-0.0066	0.2890
86	30.15	0.0	0.1327	0.0025	0.0408	0.0197	0.3076	1.3619	-0.0105	0.3957	-0.0077	0.2906
87	30.45	-0.03	0.1271	0.0025	0.0389	0.0201	0.3065	1.3721	-0.0096	0.3951	-0.0070	0.2880
88	30.77	-0.08	0.1434	0.0035	0.0396	0.0248	0.2760	1.3650	-0.0088	0.3953	-0.0065	0.2896

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6 6.1 1.10 1.7 0.0 M2W1P12 15.400 0 0 0 0 FIXED										
POINT	ALPHA	META	CN	CLM	CY	CLN	CLL	CAP	XCP	
1	-2.65	0.03	-0.6447	0.2337	0.1189	0.0055	0.0220	0.4268	-0.3625	
2	-2.03	0.02	-0.5136	0.1852	0.1347	-0.0476	0.0240	0.4291	-0.3605	
3	-1.40	0.04	-0.3062	0.0657	0.1906	0.0911	0.0190	0.4176	-0.2145	
4	-0.80	0.05	-0.1612	0.1797	0.1547	0.0714	0.0210	0.4339	-0.4045	
5	-0.27	0.09	-0.0495	0.1334	0.1827	0.0022	0.0150	0.4377	-2.6929	
6	0.29	0.06	0.1045	0.1097	0.2444	0.0518	0.0230	0.4304	1.0498	
7	0.83	0.02	0.2203	0.0720	0.2046	0.0706	0.0210	0.4219	0.3795	
8	1.35	0.02	0.3614	0.0350	0.2360	0.0536	0.0270	0.4217	0.0970	
9	1.92	0.05	0.5420	0.0441	0.1409	0.0267	0.0180	0.4245	0.0813	
10	2.40	0.03	0.6479	-0.0082	0.1411	0.0275	0.0220	0.4195	-0.0127	
11	2.90	-0.01	0.7251	-0.0263	0.0671	0.1040	0.0320	0.4309	-0.0367	
12	3.39	0.05	0.9248	-0.1058	0.1447	0.0744	0.0270	0.4190	-0.1155	
13	3.89	0.01	1.0639	-0.1696	0.0246	0.0046	0.0310	0.4099	-0.1782	
14	4.37	0.02	1.2626	-0.2464	0.1272	0.0019	0.0240	0.4171	-0.2351	
15	4.85	0.03	1.4106	-0.3871	0.0377	-0.0158	0.0320	0.4063	-0.2744	
16	5.32	0.06	1.5577	-0.5243	0.0721	0.0430	0.0290	0.4146	-0.3390	
17	5.78	0.01	1.7299	-0.7060	0.0507	0.1570	0.0380	0.4276	-0.4081	
18	6.27	0.03	1.9187	-0.8245	0.1255	0.0053	0.0270	0.4149	-0.4797	
19	6.72	0.05	2.0722	-0.9804	0.2527	0.1052	0.0240	0.4339	-0.4452	
20	7.20	0.05	2.1893	-1.0873	0.1663	-0.0078	0.0280	0.4415	-0.4966	
21	7.66	0.09	2.3446	-1.2437	0.2971	-0.0629	0.0260	0.4390	-0.5383	
22	8.11	0.04	2.4982	-1.3567	0.1018	-0.0595	0.0320	0.4416	-0.5431	
23	8.54	0.0	2.6222	-1.4983	0.1053	0.0406	0.0310	0.4581	-0.5714	
24	9.00	0.05	2.8469	-1.7790	0.1149	0.0551	0.0310	0.4535	-0.6249	
25	9.46	0.0	2.9866	-1.8816	0.1336	0.0220	0.0310	0.4398	-0.6342	
26	9.93	0.01	3.0800	-2.0583	0.1832	-0.0025	0.0350	0.4436	-0.6683	
27	10.26	-0.02	3.2335	-2.1662	0.0259	0.0207	0.0250	0.4471	-0.6694	
28	10.66	0.0	3.4478	-2.3913	0.0385	0.0401	0.0380	0.4271	-0.6936	
29	11.09	0.03	3.5555	-2.6071	0.1378	0.0881	0.0300	0.4266	-0.7332	
30	11.48	0.04	3.7181	-2.6757	0.0979	-0.1380	0.0300	0.4156	-0.7196	
31	11.90	0.06	3.8188	-2.8366	0.2099	0.0151	0.0220	0.4195	-0.7428	
32	12.27	0.03	3.9832	-2.9458	0.1864	-0.0847	0.0270	0.4163	-0.7396	
33	12.67	0.01	4.1455	-3.0840	-0.0621	0.0009	0.0320	0.4329	-0.7368	
34	13.01	0.02	4.3149	-3.2543	0.0249	-0.0899	0.0240	0.4167	-0.7553	
35	13.34	0.02	4.4236	-3.3864	0.0188	0.1067	0.0320	0.4200	-0.7655	
36	13.77	0.04	4.5413	-3.4560	0.2107	0.0450	0.0310	0.4154	-0.7524	
37	14.16	0.02	4.7132	-3.6478	0.1406	-0.0578	0.0350	0.4025	-0.7740	
38	14.50	0.03	4.8474	-3.7407	0.1398	0.0843	0.0510	0.4054	-0.7733	
39	14.87	0.0	5.0841	-4.0212	0.0106	-0.0268	0.0390	0.3949	-0.7913	
40	15.23	0.04	5.1341	-4.0632	0.0015	0.1564	0.0440	0.4001	-0.7914	
41	15.62	0.04	5.3789	-4.2484	0.1751	0.1498	0.0430	0.3994	-0.7992	
42	15.98	-0.01	5.4643	-4.3554	0.0010	0.0656	0.0310	0.3970	-0.7971	
43	16.30	0.04	5.6524	-4.5247	0.0426	0.1713	0.0380	0.3930	-0.8005	
44	16.64	0.02	5.7086	-4.6487	0.0707	0.1540	0.0290	0.3960	-0.8143	
45	16.97	0.0	3.8546	-1.9664	0.1235	0.0130	0.0290	0.3930	-0.8103	
46	17.35	0.0	6.0649	-4.8643	0.1085	-0.0119	0.0160	0.3995	-0.8014	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART WACH WX10-6									
6 63 1.10 1.7 0.0 021112 15.400 0 0 0 0 FIXED									
POINT	ALPHA	HFTA	CN	CLM	CT	CLN	CLL	CAF	XCP
47	17.68	0.01	6.1132	-5.0509	0.2014	-0.0170	0.0040	0.1943	-0.8182
48	18.01	-0.01	6.2976	-5.2121	0.2012	-0.1547	0.0030	0.3821	-0.8276
49	18.34	0.0	6.1574	-5.2658	0.0443	0.1260	0.0150	0.3876	-0.8283
50	18.71	0.0	6.6179	-5.5126	-0.0137	-0.0078	0.0070	0.3799	-0.8330
51	19.03	0.03	6.7432	-5.6740	0.1131	0.1706	0.0030	0.3745	-0.8414
52	19.38	0.06	6.8907	-5.8035	0.1780	0.1458	0.0040	0.3532	-0.8422
53	19.73	0.04	7.0470	-6.0003	0.0796	0.0865	0.0030	0.3370	-0.8515
54	20.05	-0.03	7.1193	-6.0525	0.0211	0.1164	0.0010	0.3378	-0.8502
55	20.38	0.01	7.3255	-6.2103	-0.0062	0.1537	-0.0020	0.3511	-0.8478
56	20.73	0.0	7.4209	-6.3528	0.0311	0.2994	-0.0090	0.3506	-0.8561
57	21.09	0.0	7.5716	-6.4478	0.0377	0.1942	-0.0140	0.3504	-0.8516
58	21.45	0.02	7.6836	-6.3649	0.0038	0.3646	-0.0010	0.3549	-0.8290
59	21.78	-0.01	7.8431	-6.5943	-0.0327	0.2010	-0.0170	0.3464	-0.8409
60	22.13	0.0	7.9517	-6.6569	-0.0539	0.1494	-0.0170	0.3439	-0.8372
61	22.47	-0.02	8.0915	-6.6358	-0.0444	0.1501	-0.0170	0.3403	-0.8201
62	22.80	0.01	8.2350	-6.6928	0.1407	0.1160	-0.0400	0.3342	-0.8124
63	23.15	-0.02	8.4338	-6.6920	0.0057	0.1180	-0.0430	0.3339	-0.7935
64	23.43	-0.03	8.4731	-6.6980	0.0427	0.1382	-0.0410	0.3143	-0.7905
65	23.77	-0.04	8.6495	-6.7530	-0.0061	0.1245	-0.0470	0.3285	-0.7807
66	24.10	-0.01	8.7357	-6.8046	0.1326	0.2553	-0.0520	0.3186	-0.7789
67	24.45	-0.04	8.9355	-6.8285	0.0591	0.0443	-0.0550	0.3274	-0.7642
68	24.77	-0.03	9.0948	-6.8325	0.0810	0.2376	-0.0540	0.3294	-0.7513
69	25.13	-0.03	9.2324	-6.8901	0.0969	0.0163	-0.0800	0.3280	-0.7463
70	25.42	-0.01	9.3805	-6.9745	0.1896	0.0945	-0.0840	0.3321	-0.7435
71	25.78	-0.03	9.5326	-6.9774	0.0651	0.1178	-0.0740	0.3320	-0.7320
72	26.08	-0.04	9.6506	-6.9377	-0.0037	0.1432	-0.0860	0.3153	-0.7189
73	26.36	-0.03	9.6525	-7.0204	0.0271	0.1940	-0.0920	0.3129	-0.7273
74	26.73	-0.02	9.9347	-7.0441	0.0830	0.1708	-0.0950	0.3175	-0.7128
75	27.00	-0.03	10.0389	-7.1033	0.0062	0.2333	-0.0900	0.3150	-0.7076
76	27.30	-0.02	10.1065	-7.1270	-0.0120	0.4757	-0.0880	0.3204	-0.7052
77	27.63	-0.03	10.3670	-7.1874	-0.0239	0.4234	-0.0850	0.3110	-0.6933
78	27.98	-0.03	10.5186	-7.2780	-0.0151	0.3841	-0.0880	0.3133	-0.6919
79	28.24	-0.03	10.6122	-7.3721	-0.1045	0.5692	-0.0830	0.3012	-0.6947
80	28.60	-0.01	10.8542	-7.3689	-0.1514	0.7456	-0.0900	0.3051	-0.6789
81	28.84	-0.01	10.8844	-7.3477	-0.1448	0.8720	-0.0830	0.2885	-0.6745
82	29.20	-0.03	11.0735	-7.4564	-0.3917	1.1454	-0.0540	0.2843	-0.6734
83	29.43	-0.01	11.1020	-7.5554	-0.2465	1.1809	-0.0800	0.2813	-0.6685
84	29.85	0.02	11.4410	-7.6685	-0.0525	0.7844	-0.0940	0.2452	-0.6703
85	30.15	-0.03	11.4157	-7.7001	-0.3222	1.3754	-0.0940	0.2444	-0.6687
86	30.44	-0.02	11.8662	-7.8862	-0.3190	1.1325	-0.0970	0.2353	-0.6648
87	30.77	-0.01	11.8701	-7.9583	-0.4219	1.5746	-0.0750	0.2225	-0.6704

PAGE 2 OF 3
SHEET 1 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		HX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		63		1.10		1.7	0.0	H2M12	15.400	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CM1	CM1	XCPF1	YCPF1	CNF2	CM2	CM2	XCPF2	YCPF2	
1	-2.65	0.03	0.0391	0.0	-0.0077	0.0	-0.1062	-0.0442	0.0036	-0.0327	-0.0747	0.6776	
2	-2.03	0.02	0.0431	0.0001	-0.0079	0.0035	-0.1042	-0.0319	0.0027	-0.0257	-0.0690	0.8066	
3	-1.40	0.04	0.0386	-0.0002	-0.0065	-0.0057	-0.1694	-0.0172	0.0008	-0.0179	-0.0494	1.0425	
4	-0.80	0.05	0.0428	0.0	-0.0070	0.0	-0.1644	-0.0126	0.0005	-0.0161	-0.0436	1.2777	
5	-0.27	0.09	0.0402	0.0	-0.0063	0.0	-0.1568	-0.0020	0.0002	-0.0128	-0.1250	6.3832	
6	0.29	0.06	0.0421	-0.0003	-0.0057	-0.0071	-0.1347	0.0061	0.0	-0.0095	0.0	-1.5520	
7	0.83	0.02	0.0421	-0.0003	-0.0057	-0.0071	-0.1347	0.0163	0.0001	-0.0048	0.0092	-0.2926	
8	1.35	0.02	0.0420	-0.0004	-0.0056	-0.0095	-0.1335	0.0219	-0.0002	-0.0012	-0.0114	-0.0549	
9	1.92	0.05	0.0435	-0.0002	-0.0054	-0.0046	-0.1335	0.0330	-0.0010	0.0008	-0.0303	0.0241	
10	2.40	0.03	0.0459	-0.0002	-0.0054	-0.0054	-0.1178	0.0440	-0.0017	0.0085	-0.0348	0.1923	
11	2.90	-0.01	0.0448	-0.0001	-0.0051	-0.0033	-0.1132	0.0573	-0.0076	0.0119	-0.0507	0.7281	
12	3.39	0.05	0.0497	-0.0001	-0.0048	-0.0030	-0.0974	0.0664	-0.0034	0.0178	-0.0519	0.2685	
13	3.89	0.01	0.0446	-0.0004	-0.0061	-0.0090	-0.1376	0.0757	-0.0043	0.0223	-0.0568	0.2949	
14	4.37	0.02	0.0551	-0.0007	-0.0051	-0.0177	-0.0933	0.0922	-0.0055	0.0293	-0.0602	0.3180	
15	4.85	0.03	0.0568	-0.0005	-0.0056	-0.0048	-0.0941	0.1065	-0.0066	0.0353	-0.0620	0.3313	
16	5.37	0.06	0.0567	-0.0005	-0.0047	-0.0088	-0.0830	0.1264	-0.0077	0.0442	-0.0613	0.3498	
17	5.76	0.01	0.0524	-0.0004	-0.0076	-0.0076	-0.1458	0.1417	-0.0088	0.0514	-0.0621	0.3629	
18	6.27	0.03	0.0592	-0.0006	-0.0067	-0.0110	-0.1127	0.1631	-0.0107	0.0590	-0.0628	0.3620	
19	6.72	0.05	0.0619	-0.0005	-0.0070	-0.0089	-0.1127	0.1806	0.0112	0.0671	-0.0623	0.3714	
20	7.20	0.05	0.0594	-0.0002	-0.0075	-0.0075	-0.1331	0.2040	-0.0127	0.0778	-0.0625	0.3813	
21	7.66	0.04	0.0624	-0.0002	-0.0072	-0.0040	-0.1148	0.2228	-0.0136	0.0871	-0.0613	0.3911	
22	8.11	0.04	0.0600	-0.0002	-0.0077	-0.0042	-0.1285	0.2445	-0.0144	0.0924	-0.0591	0.3778	
23	8.54	0.0	0.0588	-0.0002	-0.0071	-0.0043	-0.1209	0.2644	-0.0157	0.1027	-0.0594	0.3884	
24	9.00	0.05	0.0584	0.0001	-0.0088	0.0026	-0.1514	0.2870	-0.0162	0.1099	-0.0566	0.3830	
25	9.40	0.0	0.0605	0.0000	-0.0078	0.0008	-0.1296	0.3064	-0.0166	0.1187	-0.0542	0.3874	
26	9.83	0.01	0.0603	0.0	-0.0077	0.0	-0.1278	0.3257	-0.0170	0.1238	-0.0523	0.3802	
27	10.26	-0.02	0.0595	0.0003	-0.0069	0.0050	-0.1155	0.3531	-0.0185	0.1343	-0.0524	0.3802	
28	10.63	0.0	0.0592	0.0001	-0.0068	0.0017	-0.1144	0.3756	-0.0186	0.1434	-0.0495	0.3817	
29	11.09	0.03	0.0506	0.0007	-0.0041	0.0138	-0.1806	0.3950	-0.0192	0.1489	-0.0486	0.3770	
30	11.48	0.03	0.0631	0.0002	-0.0073	0.0040	-0.1153	0.4017	-0.0197	0.1535	-0.0490	0.3820	
31	11.90	0.06	0.0519	0.0008	-0.0062	0.0154	-0.1581	0.4190	-0.0202	0.1595	-0.0483	0.3807	
32	12.27	0.03	0.0592	0.0004	-0.0061	0.0160	-0.1076	0.4382	-0.0215	0.1662	-0.0490	0.3793	
33	12.67	0.01	0.0575	0.0013	-0.0067	0.0235	-0.1172	0.4592	-0.0222	0.1707	-0.0484	0.3718	
34	13.01	0.02	0.0525	0.0013	-0.0071	0.0248	-0.1344	0.4711	-0.0217	0.1740	-0.0460	0.3778	
35	13.39	0.02	0.0473	0.0017	-0.0045	0.0770	-0.2017	0.4850	-0.0221	0.1829	-0.0457	0.3771	
36	13.77	0.04	0.0546	0.0014	-0.0067	0.0464	-0.1278	0.4952	-0.0222	0.1840	-0.0449	0.3716	
37	14.14	0.02	0.0525	0.0070	-0.0040	0.0741	-0.1524	0.5104	-0.0218	0.1849	-0.0427	0.3720	
38	14.50	0.03	0.0514	0.0024	-0.0040	0.0672	-0.1563	0.5259	-0.0221	0.1848	-0.0421	0.3705	
39	14.87	0.0	0.0516	0.0023	-0.0045	0.0454	-0.1649	0.5447	-0.0217	0.2000	-0.0395	0.3638	
40	15.23	0.04	0.0471	0.0075	-0.0040	0.0444	-0.1543	0.5663	-0.0214	0.2047	-0.0379	0.3615	
41	15.62	0.04	0.0441	0.0028	-0.0048	0.0570	-0.2004	0.5886	-0.0211	0.2123	-0.0360	0.3618	
42	15.94	-0.01	0.0493	0.0078	-0.0106	0.0578	-0.2145	0.5943	-0.0206	0.2126	-0.0347	0.3578	
43	16.30	0.04	0.0475	0.0032	-0.0119	0.0674	-0.2499	0.6235	-0.0206	0.2204	-0.0330	0.3534	
44	16.64	0.02	0.0415	0.0032	-0.0138	0.0771	-0.3318	0.6431	-0.0201	0.2243	-0.0313	0.3488	
45	16.97	0.0	0.0448	0.0037	-0.0134	0.0826	-0.3074	0.6586	-0.0202	0.2242	-0.0307	0.3481	
46	17.35	0.0	0.0439	0.0039	-0.0137	0.0888	-0.3114	0.6704	-0.0201	0.2324	-0.0300	0.3466	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	63	1.10	1.7	0.0	H2W1F12	15.400	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI1	CHI	XCPF1	YCPF1	CNF2	CHI2	CHI2	XCPF2	YCPF2
47	17.68	0.01	0.0440	0.0039	-0.0149	0.0886	-0.3395	0.6995	-0.0192	0.2388	-0.0274	0.3414
48	18.01	-0.01	0.0333	0.0039	-0.0180	0.1186	-0.5407	0.7184	-0.0189	0.2443	-0.0264	0.3399
49	18.34	0.0	0.0296	0.0039	-0.0190	0.1317	-0.6431	0.7350	-0.0196	0.2468	-0.0267	0.3359
50	18.71	0.0	0.0210	0.0034	-0.0208	0.1833	-0.9906	0.7540	-0.0174	0.2534	-0.0230	0.3339
51	19.03	0.03	0.0147	0.0030	-0.0202	0.2074	-1.3743	0.7748	-0.0168	0.2600	-0.0216	0.3335
52	19.38	0.06	0.0142	0.0029	-0.0203	0.1593	-1.1173	0.7949	-0.0156	0.2645	-0.0196	0.3327
53	19.73	0.04	0.0179	0.0029	-0.0176	0.1620	-0.9852	0.8049	-0.0150	0.2682	-0.0185	0.3311
54	20.05	-0.03	0.0142	0.0028	-0.0187	0.1971	-1.3147	0.8246	-0.0157	0.2724	-0.0190	0.3303
55	20.38	0.01	0.0162	0.0026	-0.0172	0.1636	-1.0618	0.8415	-0.0156	0.2740	-0.0183	0.3277
56	20.73	0.0	0.0106	0.0027	-0.0212	0.2594	-1.9970	0.8766	-0.0157	0.2858	-0.0179	0.3260
57	21.09	0.0	0.0117	0.0026	-0.0207	0.2265	-1.7643	0.8430	-0.0156	0.2872	-0.0177	0.3253
58	21.45	0.02	0.0004	0.0044	-0.0271	11.1230	-67.6668	0.8959	-0.0155	0.2906	-0.0173	0.3244
59	21.78	-0.01	0.0132	0.0034	-0.0229	0.2613	-1.7350	0.9157	-0.0153	0.2951	-0.0168	0.3223
60	22.13	0.0	0.0083	0.0040	-0.0257	0.4879	-3.1005	0.9244	-0.0152	0.2989	-0.0165	0.3234
61	22.47	-0.02	0.0041	0.0044	-0.0261	1.0852	-8.1741	0.9349	-0.0157	0.3019	-0.0168	0.3229
62	22.80	0.01	0.0031	0.0047	-0.0255	1.5149	-8.2152	0.9507	-0.0158	0.3047	-0.0166	0.3205
63	23.15	-0.02	0.0021	0.0046	-0.0281	2.2139	-13.3811	0.9555	-0.0167	0.3069	-0.0175	0.3212
64	23.43	-0.03	-0.0039	0.0046	-0.0299	-1.1793	7.6665	0.9499	-0.0192	0.3051	-0.0203	0.3212
65	23.77	-0.04	-0.0046	0.0041	-0.0300	-0.9020	6.5289	0.9683	-0.0182	0.3042	-0.0188	0.3182
66	24.10	-0.01	-0.0178	0.0039	-0.0367	-0.2791	2.0636	0.9671	-0.0198	0.3049	-0.0205	0.3194
67	24.45	-0.04	-0.0126	0.0034	-0.0353	-0.2658	2.8015	0.9759	-0.0190	0.3093	-0.0195	0.3169
68	24.77	-0.03	-0.0346	0.0035	-0.0449	-0.1011	1.2985	0.9710	-0.0192	0.3085	-0.0198	0.3177
69	25.13	-0.03	-0.0376	0.0024	-0.0469	-0.0638	1.1949	0.9837	-0.0195	0.3092	-0.0199	0.3143
70	25.42	-0.01	-0.0513	0.0021	-0.0475	-0.0419	0.9258	0.9845	-0.0196	0.3114	-0.0199	0.3163
71	25.78	-0.03	-0.0608	0.0007	-0.0482	-0.0115	0.7921	0.9780	-0.0234	0.3109	-0.0239	0.3179
72	26.08	-0.04	-0.0608	0.0006	-0.0492	-0.0107	0.8085	0.9817	-0.0303	0.3113	-0.0309	0.3171
73	26.36	-0.03	-0.0654	0.0006	-0.0502	-0.0126	0.7564	0.9881	-0.0256	0.3117	-0.0259	0.3154
74	26.73	-0.02	-0.0616	0.0001	-0.0490	-0.0016	0.7959	0.9927	-0.0267	0.3152	-0.0269	0.3175
75	27.00	-0.03	-0.0724	-0.0004	-0.0491	0.0062	0.6785	1.0065	-0.0281	0.3172	-0.0279	0.3151
76	27.30	-0.02	-0.0809	-0.0022	-0.0527	0.0278	0.6521	1.0089	-0.0275	0.3179	-0.0273	0.3151
77	27.63	-0.03	-0.0855	-0.0040	-0.0489	0.0561	0.5718	1.0105	-0.0276	0.3187	-0.0273	0.3153
78	27.98	-0.03	-0.0784	-0.0056	-0.0439	0.0717	0.4578	1.0260	-0.0273	0.3218	-0.0266	0.3136
79	28.24	-0.03	-0.0884	-0.0061	-0.0430	0.0696	0.4871	1.0343	-0.0270	0.3244	-0.0261	0.3136
80	28.60	-0.01	-0.0913	-0.0108	-0.0389	0.1183	0.4263	1.0392	-0.0273	0.3259	-0.0263	0.3136
81	28.89	-0.01	-0.0945	-0.0126	-0.0370	0.1333	0.3914	1.0407	-0.0273	0.3247	-0.0263	0.3120
82	29.20	-0.03	-0.0810	-0.0136	-0.0296	0.1679	0.3653	1.0424	-0.0274	0.3259	-0.0265	0.3127
83	29.53	-0.01	-0.1244	-0.0183	-0.0375	0.1475	0.3019	1.0444	-0.0273	0.3285	-0.0261	0.3145
84	29.85	0.02	-0.1098	-0.0168	-0.0365	0.1530	0.3323	1.0645	-0.0285	0.3331	-0.0268	0.3129
85	30.15	-0.03	-0.1307	-0.0201	-0.0377	0.1544	0.2894	1.0771	-0.0284	0.3353	-0.0264	0.3113
86	30.49	-0.02	-0.1199	-0.0179	-0.0364	0.1497	0.3040	1.0804	-0.0284	0.3322	-0.0263	0.3074
87	30.77	-0.01	-0.1739	-0.0228	-0.0445	0.1311	0.2562	1.0640	-0.0296	0.3276	-0.0278	0.3079

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 63 1.10 1.7			0.0	021112	15.400	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	-2.65	0.03	0.0284	0.0011	-0.0002	0.0349	-0.0071	-0.0453	-0.0001	-0.0039	0.0016	0.0405
2	-2.03	0.02	0.0288	0.0011	-0.0002	0.0349	-0.0071	-0.0402	-0.0012	0.0028	0.0150	-0.0346
3	-1.40	0.04	0.0188	0.0011	0.0009	0.0412	0.0460	-0.0617	-0.0020	0.0049	0.0324	-0.1449
4	-0.80	0.05	0.0225	0.0011	-0.0001	0.0511	-0.0046	-0.0515	-0.0023	0.0043	0.0456	-0.1619
5	-0.27	0.09	0.0188	0.0011	0.0009	0.0612	0.0460	-0.0354	-0.0023	0.0101	0.0664	-0.2854
6	0.29	0.06	0.0188	0.0011	0.0009	0.0612	0.0460	-0.0467	-0.0024	0.0155	0.0514	-0.3327
7	0.83	0.02	0.0125	0.0011	0.0010	0.0920	0.0772	-0.0231	-0.0020	0.0170	0.0865	-0.7174
8	1.35	0.02	0.0124	0.0004	0.0010	0.0645	0.0832	-0.0214	-0.0027	0.0221	0.1285	-1.0313
9	1.92	0.05	0.0187	0.0006	0.0009	0.0428	0.0498	-0.0156	-0.0043	0.0274	0.2756	-1.7565
10	2.40	0.03	0.0122	0.0004	0.0011	0.0328	0.0473	-0.0031	-0.0051	0.0325	1.6449	-10.4732
11	2.90	-0.01	0.0023	0.0008	0.0022	0.3695	0.4419	0.0095	-0.0060	0.0370	-0.6315	3.8911
12	3.39	0.05	0.0182	0.0003	-0.0006	0.0165	-0.0349	0.0219	-0.0072	0.0427	-0.3310	1.9497
13	3.89	0.01	0.0075	0.0003	0.0041	0.0400	0.5465	0.0404	-0.0084	0.0507	-0.2079	1.2540
14	4.37	0.02	0.0195	-0.0006	0.0046	-0.0308	0.2358	0.0565	-0.0093	0.0554	-0.1646	0.9810
15	4.85	0.03	0.0184	-0.0008	0.0066	-0.0462	0.3604	0.0717	-0.0100	0.0633	-0.1401	0.8827
16	5.32	0.06	0.0117	-0.0008	0.0074	-0.0776	0.6324	0.0800	-0.0107	0.0719	-0.1344	0.8995
17	5.78	0.01	0.0043	-0.0009	0.0078	-0.1144	0.9356	0.1146	-0.0118	0.0818	-0.0999	0.6899
18	6.27	0.03	0.0268	-0.0017	0.0082	-0.0653	0.3071	0.1376	-0.0129	0.0878	-0.0941	0.6384
19	6.72	0.05	0.0167	-0.0018	0.0094	-0.1108	0.5608	0.1565	-0.0135	0.0940	-0.0866	0.6009
20	7.20	0.05	0.0167	-0.0018	0.0094	-0.1108	0.5608	0.1776	-0.0150	0.1065	-0.0844	0.5995
21	7.66	0.09	0.0260	-0.0022	0.0096	-0.0846	0.3678	0.2069	-0.0161	0.1134	-0.0780	0.5483
22	8.11	0.04	0.0154	-0.0018	0.0129	-0.1201	0.8397	0.2255	-0.0175	0.1206	-0.0776	0.5350
23	8.54	0.0	0.0248	-0.0027	0.0141	-0.0923	0.4742	0.2542	-0.0185	0.1306	-0.0730	0.5138
24	9.00	0.05	0.0332	-0.0027	0.0137	-0.0828	0.4115	0.2834	-0.0202	0.1395	-0.0698	0.4621
25	9.40	0.0	0.0240	-0.0027	0.0129	-0.1146	0.5374	0.2910	-0.0202	0.1451	-0.0694	0.4984
26	9.83	0.01	0.0228	-0.0032	0.0149	-0.1403	0.6534	0.3129	-0.0210	0.1532	-0.0672	0.4894
27	10.26	-0.02	0.0251	-0.0035	0.0175	-0.1414	0.6958	0.3415	-0.0217	0.1612	-0.0635	0.4720
28	10.68	0.0	0.0245	-0.0032	0.0131	-0.1085	0.4451	0.3772	-0.0219	0.1685	-0.0580	0.4467
29	11.09	0.03	0.0142	-0.0032	0.0173	-0.0990	0.5057	0.4086	-0.0219	0.1785	-0.0536	0.4367
30	11.48	0.03	0.0339	-0.0041	0.0235	-0.1224	0.6431	0.4279	-0.0223	0.1827	-0.0522	0.4269
31	11.90	0.06	0.0355	-0.0036	0.0209	-0.1014	0.5896	0.4370	-0.0221	0.1897	-0.0507	0.4341
32	12.27	0.03	0.0508	-0.0041	0.0216	-0.0817	0.4257	0.4668	-0.0226	0.1928	-0.0485	0.4131
33	12.67	0.01	0.0343	-0.0032	0.0235	-0.0947	0.6460	0.4852	-0.0237	0.2021	-0.0488	0.4165
34	13.01	0.02	0.0446	-0.0035	0.0242	-0.0716	0.4885	0.5069	-0.0232	0.2075	-0.0458	0.4093
35	13.39	0.02	0.0409	-0.0035	0.0216	-0.0688	0.4236	0.5331	-0.0236	0.2109	-0.0442	0.3945
36	13.77	0.04	0.0463	-0.0035	0.0234	-0.0640	0.4167	0.5560	-0.0233	0.2144	-0.0419	0.3873
37	14.14	0.02	0.0435	-0.0035	0.0244	-0.0816	0.6505	0.5645	-0.0228	0.2221	-0.0404	0.3934
38	14.50	0.03	0.0123	-0.0029	0.0212	-0.0913	0.6552	0.5934	-0.0228	0.2252	-0.0385	0.3792
39	14.87	0.0	0.0346	-0.0031	0.0254	-0.0743	0.6413	0.6030	-0.0226	0.2321	-0.0375	0.3849
40	15.23	0.04	0.0441	-0.0031	0.0238	-0.0554	0.4481	0.6279	-0.0217	0.2385	-0.0345	0.3799
41	15.62	0.04	0.0511	-0.0029	0.0277	-0.0567	0.5426	0.6505	-0.0217	0.2442	-0.0334	0.3755
42	15.98	-0.01	0.0642	-0.0030	0.0269	-0.0475	0.4189	0.6574	-0.0221	0.2447	-0.0337	0.3723
43	16.30	0.04	0.0526	-0.0025	0.0251	-0.0435	0.4777	0.6899	-0.0215	0.2499	-0.0312	0.3623
44	16.64	0.02	0.0513	-0.0025	0.0277	-0.0497	0.5398	0.6955	-0.0215	0.2546	-0.0309	0.3661
45	16.97	0.0	0.0434	-0.0021	0.0171	-0.0339	0.2701	0.7152	-0.0215	0.2544	-0.0301	0.3585
46	17.35	0.0	0.0646	-0.0024	0.0323	-0.0379	0.5004	0.7325	-0.0215	0.2619	-0.0294	0.3575

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH M10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
63 1.10 1.7			0.0	M2W1F12	15.400	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	17.48	0.01	0.0653	-0.0022	0.0329	-0.0342	0.5121	0.7579	-0.0211	0.2672	-0.0279	0.3526
48	18.01	-0.01	0.0679	-0.0024	0.0319	-0.0361	0.4702	0.7764	-0.0203	0.2739	-0.0261	0.3528
49	18.34	0.0	0.0718	-0.0008	0.0224	-0.0191	0.5366	0.7768	-0.0202	0.2770	-0.0260	0.3502
50	18.71	0.0	0.0724	-0.0020	0.0295	-0.0276	0.4078	0.8150	-0.0203	0.2819	-0.0249	0.3459
51	19.03	0.03	0.0566	-0.0016	0.0295	-0.0290	0.5198	0.8374	-0.0194	0.2877	-0.0232	0.3436
52	19.38	0.06	0.0640	-0.0021	0.0320	-0.0309	0.4700	0.8658	-0.0182	0.2937	-0.0211	0.3393
53	19.73	0.09	0.0758	-0.0019	0.0354	-0.0257	0.4665	0.8923	-0.0177	0.2967	-0.0199	0.3325
54	20.05	-0.03	0.0694	-0.0016	0.0299	-0.0238	0.4312	0.8900	-0.0183	0.2995	-0.0206	0.3365
55	20.38	0.01	0.0670	-0.0015	0.0346	-0.0231	0.5168	0.9255	-0.0188	0.3073	-0.0203	0.3320
56	20.73	0.0	0.0681	-0.0013	0.0264	-0.0191	0.3875	0.9380	-0.0203	0.3110	-0.0217	0.3315
57	21.09	0.0	0.0625	-0.0011	0.0359	-0.0176	0.5748	0.9586	-0.0204	0.3110	-0.0213	0.3245
58	21.45	0.02	0.0768	-0.0003	0.0284	-0.0046	0.3697	0.9649	-0.0189	0.3172	-0.0196	0.3288
59	21.78	-0.01	0.0797	-0.0010	0.0345	-0.0132	0.4298	0.9901	-0.0193	0.3203	-0.0195	0.3235
60	22.13	0.0	0.0949	-0.0005	0.0366	-0.0065	0.4310	1.0052	-0.0193	0.3242	-0.0192	0.3225
61	22.47	-0.02	0.0743	-0.0010	0.0366	-0.0134	0.4699	1.0047	-0.0193	0.3240	-0.0192	0.3225
62	22.80	0.01	0.0850	-0.0009	0.0421	-0.0106	0.4956	1.0237	-0.0191	0.3275	-0.0187	0.3199
63	23.15	-0.02	0.0898	-0.0005	0.0391	-0.0061	0.4357	1.0268	-0.0194	0.3290	-0.0189	0.3204
64	23.43	-0.03	0.1029	-0.0002	0.0444	-0.0019	0.4314	1.0406	-0.0199	0.3279	-0.0192	0.3152
65	23.77	-0.04	0.1015	-0.0005	0.0409	-0.0049	0.4032	1.0399	-0.0199	0.3310	-0.0192	0.3183
66	24.10	-0.01	0.0953	-0.0001	0.0409	-0.0016	0.4298	1.0401	-0.0205	0.3310	-0.0198	0.3182
67	24.45	-0.04	0.1142	0.0003	0.0412	0.0031	0.3612	1.0495	-0.0191	0.3323	-0.0182	0.3166
68	24.77	-0.03	0.1232	0.0004	0.0482	0.0032	0.3917	1.0627	-0.0200	0.3343	-0.0188	0.3146
69	25.13	-0.03	0.1169	0.0005	0.0483	0.0043	0.4136	1.0727	-0.0192	0.3337	-0.0179	0.3111
70	25.42	-0.01	0.1141	-0.0001	0.0513	-0.0007	0.3824	1.0891	-0.0210	0.3378	-0.0193	0.3102
71	25.78	-0.03	0.1323	0.0009	0.0490	0.0068	0.3703	1.1038	-0.0214	0.3434	-0.0194	0.3111
72	26.06	-0.04	0.1359	0.0016	0.0486	0.0121	0.3575	1.1015	-0.0234	0.3394	-0.0213	0.3082
73	26.36	-0.03	0.1357	0.0010	0.0486	0.0074	0.3583	1.1018	-0.0247	0.3394	-0.0225	0.3081
74	26.73	-0.02	0.1358	0.0012	0.0485	0.0092	0.3575	1.1080	-0.0261	0.3435	-0.0235	0.3100
75	27.00	-0.03	0.1259	0.0016	0.0435	0.0127	0.3659	1.1075	-0.0266	0.3465	-0.0241	0.3129
76	27.30	-0.02	0.1306	0.0016	0.0405	0.0127	0.3102	1.1271	-0.0263	0.3484	-0.0234	0.3091
77	27.63	-0.03	0.1359	0.0013	0.0486	0.0099	0.3575	1.1609	-0.0265	0.3506	-0.0228	0.3020
78	27.98	-0.03	0.1413	0.0016	0.0442	0.0113	0.3127	1.1695	-0.0269	0.3547	-0.0230	0.3033
79	28.24	-0.03	0.1349	0.0019	0.0449	0.0141	0.3332	1.1705	-0.0265	0.3557	-0.0227	0.3039
80	28.60	-0.01	0.1363	0.0022	0.0424	0.0165	0.3112	1.2182	-0.0233	0.3643	-0.0191	0.2991
81	28.89	-0.01	0.1365	0.0025	0.0423	0.0183	0.3098	1.2153	-0.0232	0.3623	-0.0191	0.2981
82	29.20	-0.03	0.1411	0.0021	0.0394	0.0152	0.2794	1.2342	-0.0210	0.3686	-0.0170	0.2986
83	29.43	-0.01	0.1478	0.0022	0.0447	0.0149	0.3028	1.2637	-0.0201	0.3711	-0.0159	0.2937
84	29.85	0.02	0.1365	0.0032	0.0430	0.0234	0.3149	1.2694	-0.0188	0.3758	-0.0148	0.2960
85	30.15	-0.03	0.1285	0.0017	0.0387	0.0138	0.3024	1.2822	-0.0193	0.3773	-0.0150	0.2943
86	30.49	-0.02	0.1478	0.0032	0.0422	0.0216	0.2859	1.3227	-0.0184	0.3860	-0.0139	0.2919
87	30.77	-0.01	0.1403	0.0034	0.0387	0.0246	0.2762	1.3354	-0.0180	0.3835	-0.0135	0.2872

PAGE 1 OF 3
SHEET 1 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	PRIO-6	PM1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	64 U.M.S. 1.1			0.0	M20UF13	0.0	30	0	30	0	FIXED
POINT	ALPHA	PM1A	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-19.89	0.0031	-0.0413	3.6720	-7.9335	-0.0140	0.4020	-29.4645		
2	0.01	-19.68	0.0544	-0.1601	3.5765	-8.0207	-0.0140	0.4106	-2.9441		
3	0.0	-18.84	-0.0065	-0.1329	3.6057	-7.4236	-0.0210	0.4108	20.4462		
4	0.01	-18.03	0.0296	-0.1374	3.5086	-7.8147	-0.0100	0.4876	-4.6432		
5	0.01	-17.14	0.0185	-0.1179	3.3765	-7.7646	-0.0200	0.4895	-6.3730		
6	0.01	-16.34	0.0179	-0.1460	3.2686	-7.7576	-0.0090	0.4843	-8.1598		
7	0.01	-15.51	0.0350	-0.1540	3.0791	-7.5293	0.0020	0.4734	-4.4000		
8	0.01	-14.72	0.0125	-0.1135	2.9806	-7.4454	0.0120	0.4564	-9.0800		
9	0.01	-13.87	0.0063	-0.0546	2.8516	-7.3278	-0.0060	0.4505	-6.5907		
10	0.02	-13.03	-0.0176	0.0206	2.7223	-7.2608	0.0070	0.4570	-1.1727		
11	0.01	-12.23	0.0102	-0.0873	2.6565	-7.1666	0.0070	0.4373	-8.5569		
12	0.01	-11.49	-0.0028	-0.0341	2.4774	-7.0577	0.0010	0.4369	12.1714		
13	0.01	-10.73	0.0026	-0.0446	2.4199	-6.9144	0.0030	0.4180	-36.4000		
14	0.01	-9.97	0.0105	-0.0277	2.3156	-6.8334	0.0030	0.4172	-2.6381		
15	0.01	-9.21	0.0156	-0.0441	2.2257	-6.7465	0.0020	0.4749	-2.7924		
16	0.01	-8.39	0.0105	-0.0637	2.1002	-6.5758	0.0040	0.4783	-6.0667		
17	0.01	-7.64	0.0301	-0.1421	2.0515	-6.5337	0.0100	0.4711	-4.7223		
18	0.01	-6.79	-0.0013	-0.0852	1.9087	-6.3164	0.0050	0.4507	65.5230		
19	0.01	-6.01	0.0181	-0.1413	1.8656	-6.3203	0.0070	0.4419	-7.8088		
20	0.01	-5.23	0.0166	-0.1462	1.8096	-6.1849	0.0110	0.4322	-8.8096		
21	0.01	-4.48	-0.0026	-0.0314	1.6671	-6.0774	0.0050	0.4172	12.0615		
22	0.01	-3.67	-0.0087	-0.0274	1.5469	-6.0042	0.0	0.4140	3.1977		
23	0.01	-2.87	0.0131	-0.0883	1.4987	-5.8907	0.0050	0.6479	-6.7435		
24	0.01	-2.09	-0.0123	-0.0578	1.4863	-5.9383	0.0020	0.6495	4.6976		
25	0.01	-1.29	0.0485	-0.2319	1.5006	-6.0113	0.0120	0.6847	-4.7814		
26	0.01	-0.50	0.0192	-0.1069	1.3867	-5.9459	0.0070	0.6794	-5.5667		
27	0.0	0.28	0.0712	-0.4106	1.3446	-6.0929	0.0350	0.6616	-5.7680		
28	0.0	1.01	0.0777	-0.4007	1.3053	-6.2059	0.0410	0.6622	-5.1580		
29	0.0	1.79	0.0830	-0.3961	1.4080	-6.5436	0.0310	0.6664	-4.7735		
30	0.0	2.55	0.0500	-0.3162	1.4572	-6.8305	0.0300	0.6671	-5.4517		
31	0.01	3.31	0.0498	-0.1911	1.3873	-7.0136	0.0130	0.6619	-4.6843		
32	0.01	4.05	0.0074	-0.1243	1.2760	-6.4098	0.0010	0.6572	-16.8054		
33	0.01	4.88	0.0060	-0.1004	1.2142	-6.8123	0.0050	0.6480	-16.7313		
34	0.01	5.66	0.0118	-0.1315	1.1439	-6.6409	0.0070	0.6314	-11.1458		
35	0.01	6.50	-0.0046	-0.0805	1.0432	-6.5654	0.0080	0.6159	17.5130		
36	0.01	7.26	-0.0017	-0.0846	0.9501	-6.4724	0.0080	0.6045	49.7764		
37	0.01	8.10	0.0022	-0.0911	0.8516	-6.2696	0.0070	0.5880	-41.4000		
38	0.01	8.89	0.0047	-0.0942	0.7878	-6.2172	0.0090	0.5701	-25.4540		
39	0.01	9.71	0.0070	-0.1256	0.7225	-6.1678	0.0040	0.5651	-13.9556		
40	0.01	10.49	0.0282	-0.1675	0.6764	-6.2110	0.0170	0.5520	-5.9390		
41	0.01	11.30	0.0505	-0.1767	0.5160	-6.1647	0.0010	0.5365	-3.4990		
42	0.01	12.07	0.0286	-0.1380	0.4132	-6.0888	0.0	0.5234	-4.8266		
43	0.01	12.84	0.0138	-0.1253	0.3567	-5.7896	-0.0150	0.5098	-9.0812		
44	0.01	13.62	0.0191	-0.0747	0.2366	-5.6155	-0.0220	0.4934	-3.9131		
45	0.01	14.38	0.0018	-0.0075	0.0707	-5.5363	-0.0320	0.4736	-4.1778		
46	0.01	15.14	0.0171	-0.0189	-0.0783	-5.3957	-0.0330	0.4442	-1.0706		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART NALM BX10-A									
6 64 0.85 1.7 0.0 B240F13 0.0 DEL1 DEL2 DEL3 DEL4 TRANSITION									
0 30 0 30 0 FIXED									
POINT	ALPHA	HFTA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	15.92	-0.0074	0.0104	-0.1639	-5.1859	-0.0430	0.4220	-1.4000
48	0.01	16.73	-0.0022	-0.0269	-0.3523	-4.8901	-0.0650	0.3840	12.2364
49	0.01	17.54	0.0306	-0.0468	-0.5726	-4.5196	-0.0650	0.3399	-1.5307
50	0.02	18.42	-0.0064	0.0789	-0.7599	-4.0855	-0.0610	0.2961	-12.3375
51	0.01	19.19	0.0041	-0.0037	-1.0075	-3.6609	-0.0680	0.2415	-0.9122

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6			PM1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
5 0.45 1.7			0.0 0.2WOF13		0.0	30	0	30	0	FIXED		
POINT	ALPHA	HFTA	CONF1	CM1	CM1	XCPF1	YCPF1	CONF2	CM2	CM2	XCPF2	YCPF2
1	0.01	-14.89	1.2246	-0.0094	0.4899	-0.0080	0.4000	-0.0421	0.0059	-0.0033	-0.1408	0.0791
2	0.01	-19.68	1.2274	-0.0101	0.4916	-0.0083	0.4006	-0.0204	0.0017	0.0068	-0.0846	-0.3335
3	0.0	-18.84	1.2240	-0.0090	0.4885	-0.0074	0.3991	-0.0227	0.0047	0.0050	-0.2083	-0.3540
4	0.01	-18.03	1.1456	-0.0069	0.4773	-0.0058	0.3991	-0.0435	0.0025	0.0037	-0.0569	-0.0852
5	0.01	-17.14	1.1867	-0.0051	0.4725	-0.0043	0.3991	-0.0265	0.0033	0.0034	-0.1246	-0.1272
6	0.01	-16.34	1.1709	-0.0035	0.4678	-0.0029	0.3995	-0.0450	0.0059	-0.0121	-0.1301	0.2688
7	0.01	-15.51	1.1451	-0.0014	0.4561	-0.0012	0.4001	-0.0514	0.0052	-0.0114	-0.1000	0.2193
8	0.01	-14.72	1.1255	0.0005	0.4490	0.0004	0.3989	-0.0636	0.0034	-0.0175	-0.0531	0.2750
9	0.01	-13.87	1.1047	0.0026	0.4390	0.0023	0.3959	-0.0460	0.0030	-0.0062	-0.0653	0.1354
10	0.02	-13.03	1.0847	0.0032	0.4345	0.0030	0.3989	-0.0646	0.0016	-0.0124	-0.0244	0.1923
11	0.01	-12.23	1.0717	0.0056	0.4276	0.0053	0.3990	-0.0551	0.0025	-0.0094	-0.0449	0.1699
12	0.01	-11.44	1.0509	0.0063	0.4197	0.0060	0.3994	-0.0565	0.0016	-0.0099	-0.0279	0.1757
13	0.01	-10.73	1.0400	0.0065	0.4102	0.0062	0.3983	-0.0552	0.0017	-0.0085	-0.0313	0.1539
14	0.01	-9.97	1.0256	0.0092	0.4052	0.0089	0.3951	-0.0507	0.0004	-0.0077	-0.0075	0.1539
15	0.01	-9.21	0.9906	0.0104	0.3948	0.0105	0.3986	-0.0546	0.0002	-0.0097	-0.0027	0.1775
16	0.01	-8.39	0.9755	0.0117	0.3883	0.0120	0.3940	-0.0474	0.0006	-0.0053	-0.0127	0.1117
17	0.01	-7.64	0.9612	0.0122	0.3806	0.0127	0.3960	-0.0391	-0.0005	-0.0043	0.0134	0.1107
18	0.01	-6.79	0.9377	0.0136	0.3719	0.0145	0.3966	-0.0448	-0.0004	-0.0044	0.0084	0.1881
19	0.01	-6.01	0.9194	0.0144	0.3638	0.0162	0.3955	-0.0358	0.0003	-0.0044	-0.0084	0.1293
20	0.01	-5.23	0.9026	0.0152	0.3562	0.0169	0.3946	-0.0454	-0.0003	-0.0048	0.0066	0.1040
21	0.01	-4.48	0.8705	0.0172	0.3433	0.0198	0.3944	-0.0420	0.0008	-0.0075	-0.0159	0.1444
22	0.01	-3.67	0.8566	0.0175	0.3368	0.0204	0.3933	-0.0553	0.0006	-0.0087	-0.0109	0.1578
23	0.01	-2.87	0.8382	0.0170	0.3330	0.0204	0.3992	-0.0523	0.0008	-0.0075	-0.0158	0.1439
24	0.01	-2.09	0.8347	0.0154	0.3316	0.0189	0.3973	-0.0512	0.0009	-0.0050	-0.0176	0.0969
25	0.01	-1.29	0.8402	0.0150	0.3394	0.0179	0.4044	-0.0369	0.0014	-0.0014	-0.0386	0.0378
26	0.01	-0.50	0.8357	0.0157	0.3357	0.0188	0.4017	-0.0400	0.0005	-0.0023	-0.0131	0.0587
27	0.0	0.26	0.8715	0.0154	0.3497	0.0183	0.4013	-0.0181	0.0002	0.0051	-0.0083	-0.2800
28	0.0	1.01	0.8951	0.0174	0.3581	0.0200	0.4001	-0.0167	0.0008	0.0062	-0.0494	-0.3734
29	0.0	1.79	0.9204	0.0195	0.3679	0.0212	0.3995	-0.0244	0.0011	0.0029	-0.0461	-0.1176
30	0.0	2.55	0.9451	0.0196	0.3770	0.0207	0.3988	-0.0274	0.0011	0.0018	-0.0383	-0.0646
31	0.01	3.31	0.9216	0.0220	0.3679	0.0239	0.3992	-0.0450	0.0004	-0.0009	-0.0083	0.0199
32	0.01	4.05	0.8943	0.0246	0.3551	0.0275	0.3971	-0.0491	-0.0003	-0.0044	0.0061	0.0888
33	0.01	4.84	0.8717	0.0273	0.3468	0.0313	0.3978	-0.0507	-0.0004	-0.0045	0.0074	0.0884
34	0.01	5.66	0.8585	0.0310	0.3355	0.0461	0.3908	-0.0507	-0.0009	-0.0040	0.0179	0.1201
35	0.01	6.50	0.8309	0.0335	0.3261	0.0403	0.3901	-0.0457	-0.0004	-0.0045	0.0067	0.0801
36	0.01	7.26	0.8091	0.0357	0.3131	0.0441	0.3870	-0.0441	0.0011	-0.0044	-0.0278	0.0729
37	0.01	8.10	0.7946	0.0483	0.3021	0.0403	0.3806	-0.0459	0.0005	-0.0047	-0.0096	0.1023
38	0.01	8.89	0.7777	0.0408	0.2953	0.0424	0.3747	-0.0526	-0.0004	-0.0046	0.0171	0.0880
39	0.01	9.71	0.7716	0.0413	0.2975	0.0545	0.3856	-0.0391	0.0003	0.0006	-0.0077	-0.0146
40	0.01	10.49	0.7648	0.0400	0.3032	0.0523	0.3964	-0.0377	0.0003	0.0016	-0.0080	-0.0434
41	0.01	11.30	0.7435	0.0448	0.2952	0.0602	0.3970	-0.0424	0.0008	0.0004	-0.0194	-0.0095
42	0.01	12.07	0.7072	0.0437	0.2829	0.0618	0.4000	-0.0432	-0.0002	-0.0039	0.0035	0.0902
43	0.01	12.84	0.6699	0.0421	0.2722	0.0629	0.4064	-0.0433	0.0003	-0.0048	-0.0069	0.0884
44	0.01	13.62	0.6345	0.0417	0.2571	0.0657	0.4051	-0.0433	0.0008	-0.0038	-0.0191	0.0884
45	0.01	14.38	0.5988	0.0407	0.2471	0.0680	0.4126	-0.0460	0.0	-0.0066	0.0	0.1441
46	0.01	15.14	0.5587	0.0387	0.2397	0.0693	0.4290	-0.0363	0.0012	-0.0046	-0.0331	0.1264

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 64 0.85 1.7 0.0 H2WDF13 0.0 30 0 30 0 FIXED												
POINT	ALPHA	REIA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	0.01	15.92	0.5140	0.0369	0.2238	0.0717	0.4354	-0.0291	0.0023	0.0006	-0.0799	-0.0207
48	0.01	16.73	0.4491	0.0336	0.2026	0.0749	0.4511	-0.0290	0.0023	0.0005	-0.0802	-0.0185
49	0.01	17.54	0.3769	0.0300	0.1721	0.0797	0.4567	-0.0274	0.0024	0.0007	-0.0876	-0.0244
50	0.02	18.42	0.3130	0.0246	0.1420	0.0785	0.4537	-0.0398	0.0016	-0.0031	-0.0396	0.0769
51	0.01	19.19	0.2335	0.0185	0.1117	0.0791	0.4785	-0.0340	0.0017	0.0011	-0.0508	-0.0315

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH REX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 64 0.65 1.7			0.0	H240F13	0.0	30	0	30	0	FIXED		
POINT	ALPHA	HETA	CNF3	CM3	CU3	XCPF3	YCPF3	CNF4	CM4	CU4	XCPF4	YCPF4
1	0.01	-19.99	1.2066	0.0005	0.5003	0.0004	0.4146	0.0100	-0.0054	-0.0177	-0.5403	-1.7668
2	0.01	-19.64	1.1809	0.0011	0.5004	0.0010	0.4240	0.0154	-0.0058	-0.0208	-0.3752	-1.3486
3	0.0	-18.84	1.1841	0.0020	0.4945	0.0016	0.4176	0.0027	-0.0073	-0.0224	-2.6961	-8.2964
4	0.01	-18.03	1.1614	0.0037	0.4877	0.0032	0.4199	0.0014	-0.0065	-0.0200	-3.4363	-10.5089
5	0.01	-17.14	1.1524	0.0062	0.4812	0.0053	0.4175	0.0101	-0.0056	-0.0177	-0.5498	-1.7559
6	0.01	-16.34	1.1378	0.0081	0.4770	0.0071	0.4192	0.0101	-0.0056	-0.0177	-0.5498	-1.7559
7	0.01	-15.51	1.1203	0.0095	0.4664	0.0088	0.4166	0.0177	-0.0034	-0.0139	-0.2162	-0.7854
8	0.01	-14.72	1.0477	0.0122	0.4587	0.0111	0.4179	0.0177	-0.0040	-0.0139	-0.2247	-0.7854
9	0.01	-13.87	1.0748	0.0140	0.4527	0.0130	0.4212	0.0139	-0.0053	-0.0158	-0.3833	-1.1344
10	0.02	-13.03	1.0693	0.0152	0.4455	0.0142	0.4167	0.0145	-0.0048	-0.0182	-0.3312	-1.2530
11	0.01	-12.23	1.0502	0.0173	0.4345	0.0165	0.4137	0.0177	-0.0046	-0.0138	-0.2586	-0.7798
12	0.01	-11.49	1.0271	0.0185	0.4275	0.0180	0.4162	0.0138	-0.0047	-0.0157	-0.3426	-1.1378
13	0.01	-10.73	1.0004	0.0202	0.4222	0.0202	0.4220	0.0258	-0.0034	-0.0116	-0.1309	-0.4497
14	0.01	-9.97	0.9452	0.0217	0.4141	0.0218	0.4161	0.0173	-0.0040	-0.0129	-0.2299	-0.7477
15	0.01	-9.21	0.9222	0.0231	0.4059	0.0237	0.4175	0.0257	-0.0034	-0.0115	-0.1314	-0.4489
16	0.01	-8.39	0.9452	0.0250	0.3946	0.0265	0.4175	0.0254	-0.0029	-0.0107	-0.1123	-0.4227
17	0.01	-7.64	0.9291	0.0264	0.3858	0.0284	0.4153	0.0376	-0.0010	-0.0075	-0.0259	-0.1987
18	0.01	-6.79	0.9048	0.0268	0.3824	0.0295	0.4203	0.0206	-0.0029	-0.0093	-0.1384	-0.4532
19	0.01	-6.01	0.8749	0.0285	0.3704	0.0325	0.4233	0.0331	-0.0015	-0.0070	-0.0453	-0.2106
20	0.01	-5.23	0.8707	0.0289	0.3639	0.0332	0.4179	0.0377	-0.0010	-0.0075	-0.0259	-0.1999
21	0.01	-4.48	0.8526	0.0288	0.3577	0.0338	0.4196	0.0196	-0.0017	-0.0062	-0.0842	-0.3147
22	0.01	-3.67	0.8420	0.0284	0.3555	0.0342	0.4222	0.0194	-0.0021	-0.0062	-0.1061	-0.3133
23	0.01	-2.87	0.8153	0.0289	0.3505	0.0355	0.4249	0.0333	-0.0010	-0.0070	-0.0293	-0.2103
24	0.01	-2.09	0.8182	0.0287	0.3444	0.0351	0.4209	0.0378	-0.0008	-0.0075	-0.0199	-0.1985
25	0.01	-1.29	0.7420	0.0294	0.3446	0.0371	0.4350	0.0420	-0.0008	-0.0064	-0.0179	-0.1525
26	0.01	-0.50	0.7874	0.0300	0.3388	0.0381	0.4303	0.0378	-0.0008	-0.0075	-0.0199	-0.1985
27	0.0	0.28	0.7747	0.0314	0.3302	0.0405	0.4262	0.0454	-0.0001	-0.0021	-0.0017	-0.0456
28	0.0	1.01	0.7821	0.0310	0.3118	0.0396	0.4242	0.0593	-0.0001	-0.0037	-0.0013	-0.0631
29	0.0	1.74	0.4377	0.0332	0.3522	0.0396	0.4204	0.0551	-0.0001	-0.0056	-0.0014	-0.1024
30	0.0	2.55	0.4619	0.0345	0.3672	0.0400	0.4261	0.0448	0.0014	-0.0021	0.0318	-0.0462
31	0.01	3.31	0.4974	0.0353	0.3749	0.0493	0.4177	0.0447	0.0014	-0.0021	0.0319	-0.0471
32	0.01	4.05	0.4854	0.0371	0.3725	0.0419	0.4207	0.0593	0.0007	-0.0068	0.0114	-0.1154
33	0.01	4.88	0.4624	0.0390	0.3593	0.0453	0.4166	0.0457	0.0002	-0.0053	0.0033	-0.1154
34	0.01	5.66	0.4261	0.0424	0.3474	0.0514	0.4205	0.0366	0.0	-0.0043	0.0	-0.1176
35	0.01	6.50	0.7906	0.0451	0.3371	0.0570	0.4264	0.0411	-0.0008	-0.0040	-0.0183	-0.0974
36	0.01	7.28	0.7844	0.0473	0.3266	0.0603	0.4164	0.0585	-0.0001	-0.0028	-0.0013	-0.0480
37	0.01	8.10	0.7634	0.0510	0.3173	0.0667	0.4155	0.0550	-0.0002	-0.0046	-0.0041	-0.1013
38	0.01	8.84	0.7421	0.0547	0.3075	0.0737	0.4144	0.0408	-0.0004	-0.0016	-0.0202	-0.0393
39	0.01	9.71	0.7263	0.0567	0.3001	0.0751	0.4133	0.0414	-0.0014	-0.0040	-0.0449	-0.0950
40	0.01	10.49	0.7152	0.0580	0.2983	0.0811	0.4172	0.0549	-0.0016	-0.0023	-0.0287	-0.0420
41	0.01	11.30	0.7103	0.0623	0.3032	0.0877	0.4269	0.0421	-0.0035	-0.0040	-0.0820	-0.0943
42	0.01	12.07	0.6830	0.0631	0.3011	0.0924	0.4409	0.0415	-0.0027	-0.0016	-0.0651	-0.0379
43	0.01	12.84	0.6507	0.0622	0.2903	0.0956	0.4462	0.0126	-0.0061	-0.0101	-0.4824	-0.8017
44	0.01	13.62	0.6370	0.0607	0.2792	0.0952	0.4383	0.0127	-0.0076	-0.0093	-0.5968	-0.7298
45	0.01	14.38	0.6111	0.0580	0.2707	0.0950	0.4429	-0.0025	-0.0092	-0.0186	3.6923	7.4532
46	0.01	15.14	0.5697	0.0552	0.2640	0.0969	0.4634	0.0021	-0.0092	-0.0192	-4.3599	-9.1430

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 64 0.85 1.7 0.0 B2W0F13 0.0 DEL1 DEL2 DEL3 DEL4 TRANSITION												
30 0 30 0 FIXED												
POINT	ALPHA	HETA	CNF3	CM3	CM3	XCPF3	YCPF3	CNF4	CM4	CM4	XCPF4	YCPF4
47	0.01	15.92	0.5388	0.0529	0.2514	0.0981	0.4665	-0.0148	-0.0103	-0.0218	0.6947	1.4751
48	0.01	16.73	0.4877	0.0488	0.2322	0.1001	0.4762	-0.0094	-0.0098	-0.0256	1.0379	2.7268
49	0.01	17.54	0.4374	0.0454	0.2111	0.1037	0.4826	-0.0187	-0.0092	-0.0245	0.4896	1.3118
50	0.02	18.42	0.3721	0.0407	0.1872	0.1094	0.5032	-0.0127	-0.0098	-0.0299	0.7682	2.3568
51	0.01	19.19	0.3186	0.0361	0.1560	0.1103	0.4896	-0.0127	-0.0079	-0.0307	0.6205	2.4198

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 1 OF 1

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 65 0.92 1.7 0.0 02W0F13 0.0 30 0 30 0 FIXED									
POINT	ALPHA	HETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	0.01	-14.48	0.0142	-0.1484	3.8600	-8.4056	-0.0220	0.9526	-4.3532
2	0.01	-19.54	0.0499	-0.2024	3.9047	-8.4905	-0.0160	0.9512	-4.0653
3	0.0	-18.77	0.0297	-0.2066	3.7405	-8.3553	-0.0120	0.9446	-6.9556
4	0.01	-17.93	0.0316	-0.1712	3.6574	-8.3390	-0.0120	0.9445	-5.4190
5	0.01	-17.06	0.0736	-0.1100	3.4797	-8.2612	-0.0110	0.9470	-4.6627
6	0.01	-16.26	0.0391	-0.1567	3.3807	-8.1725	-0.0090	0.9231	-4.0087
7	0.01	-15.42	0.0364	-0.1514	3.3052	-8.1128	-0.0040	0.9181	-4.1747
8	0.01	-14.64	0.0145	-0.0933	3.0944	-7.9767	0.0010	0.9171	-6.4345
9	0.01	-13.78	0.0033	-0.0936	3.0459	-7.9618	0.0130	0.9152	-28.3697

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 1

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
n 65 0.92 1.7 0.0 8240F13 0.0 30 0 30 0 FIXED												
POINT	ALPHA	HFTA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	0.01	-19.88	1.3109	-0.0155	0.5106	-0.0118	0.3895	-0.0017	0.0078	-0.0025	-4.5911	1.4509
2	0.01	-19.54	1.3156	-0.0161	0.5144	-0.0123	0.3910	-0.0013	0.0035	-0.0022	-2.7132	1.7178
3	0.0	-18.77	1.3035	-0.0143	0.5085	-0.0110	0.3901	0.0031	0.0050	-0.0073	1.5978	-0.7313
4	0.01	-17.43	1.2926	-0.0133	0.5041	-0.0103	0.3900	-0.0069	0.0065	-0.0118	-0.9462	1.7100
5	0.01	-17.06	1.2787	-0.0118	0.5015	-0.0092	0.3922	-0.0050	0.0026	-0.0055	-0.5253	1.0932
6	0.01	-16.26	1.2496	-0.0092	0.4890	-0.0074	0.3913	-0.0073	0.0038	-0.0045	-1.6641	1.9419
7	0.01	-15.42	1.2326	-0.0074	0.4835	-0.0060	0.3922	-0.0042	0.0045	-0.0096	-1.0721	2.2856
8	0.01	-14.64	1.2248	-0.0059	0.4795	-0.0048	0.3915	-0.0064	0.0026	0.0123	-0.3987	1.9270
9	0.01	-13.78	1.1968	-0.0042	0.4704	-0.0035	0.3931	-0.0344	0.0037	-0.0292	-0.1069	0.8477

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH R410-6												
6 65 0.92 1.7 0.0 H2O F13 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	0.01	-19.88	1.3094	-0.0042	0.5231	-0.0032	0.3995	-0.0695	-0.0093	-0.0047	0.1339	0.0670
2	0.01	-19.54	1.3065	-0.0041	0.5212	-0.0031	0.3989	-0.0696	-0.0088	-0.0046	0.1262	0.0660
3	0.0	-18.77	1.2907	-0.0026	0.5147	-0.0020	0.3988	-0.0661	-0.0086	-0.0029	0.1306	0.0443
4	0.01	-17.93	1.2642	-0.0004	0.5102	-0.0006	0.3961	-0.0661	-0.0088	-0.0029	0.1328	0.0443
5	0.01	-17.06	1.2687	0.0010	0.5044	0.0008	0.3976	-0.0664	-0.0086	-0.0021	0.1300	0.0320
6	0.01	-16.26	1.2448	0.0036	0.4940	0.0029	0.3969	-0.0580	-0.0083	-0.0031	0.1423	0.0539
7	0.01	-15.42	1.2338	0.0047	0.4892	0.0038	0.3965	-0.0551	-0.0075	0.0008	0.1362	-0.0152
8	0.01	-14.64	1.1994	0.0068	0.4828	0.0057	0.4025	-0.0621	-0.0083	-0.0027	0.1329	0.0434
9	0.01	-13.76	1.1916	0.0091	0.4763	0.0076	0.3997	-0.0587	-0.0076	-0.0009	0.1291	0.0146

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 1 OF 1

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH REFID-B PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6 66 0.97 1.7 0.0 H2W0F13 0.0 30 0 30 0 FIXED										
POINT	ALPHA	HFTA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	-16.45	0.0274	-0.1613	3.6450	-9.0355	-0.0110	1.0647	-5.8440	
2	0.01	-15.60	0.0710	-0.2084	3.5780	-9.0627	0.0040	1.0579	-2.9352	
3	0.01	-14.83	0.0376	-0.1976	3.3862	-8.9551	0.0040	1.0614	-5.2564	
4	0.01	-13.94	0.0714	-0.2639	3.3395	-9.0477	0.0050	1.0727	-3.6969	
5	0.01	-13.16	0.0412	-0.1987	3.1450	-8.8964	0.0040	1.0722	-4.8223	
6	0.01	-12.37	0.0680	-0.1732	3.0555	-8.9371	0.0040	1.0825	-2.5471	
7	0.01	-11.62	0.0361	-0.1785	3.0707	-9.0856	0.0180	1.0841	-4.9457	
8	0.0	-10.82	0.0442	-0.2289	2.9681	-9.1017	0.0240	1.0852	-5.1783	
9	0.0	-10.10	0.0673	-0.2442	2.8519	-9.0450	0.0330	1.0858	-4.3718	
10	0.0	-9.32	0.0867	-0.3763	2.7627	-8.9745	0.0390	1.0823	-4.3412	
11	0.0	-8.56	0.0707	-0.3189	2.7235	-9.0923	0.0390	1.0912	-4.5117	
12	0.0	-7.77	0.0780	-0.3692	2.6666	-9.2746	0.0530	1.1035	-4.7333	
13	0.0	-7.00	0.1153	-0.5034	2.5938	-9.5215	0.0780	1.1311	-4.3662	
14	0.0	-6.15	0.1452	-0.5802	2.6214	-9.6141	0.0970	1.1044	-3.9964	
15	0.0	-5.44	0.0711	-0.3015	2.6029	-9.9917	0.0540	1.1233	-4.2411	
16	0.0	-4.67	0.0541	-0.2787	2.5097	-10.1057	0.0510	1.1119	-5.1523	
17	0.0	-3.89	0.0350	-0.2400	2.5251	-10.1382	0.0340	1.0960	-6.8571	
18	0.0	-3.06	0.0127	-0.1648	2.4917	-10.1848	0.0250	1.0668	-12.9748	
19	0.0	-2.29	0.0393	-0.2140	2.4386	-10.1983	0.0310	1.0582	-5.5730	
20	0.01	-1.47	0.0259	-0.1702	2.3578	-10.1290	0.0280	1.0550	-6.5737	
21	0.01	-0.69	0.0387	-0.1932	2.2704	-10.0117	0.0190	1.0302	-4.9917	
22	0.01	7.86	0.0051	-0.0991	1.2447	-8.1768	-0.0050	0.9014	-19.4392	
23	0.01	8.66	0.0161	-0.1345	1.0658	-7.7962	-0.0090	0.8594	-8.3565	
24	0.0	9.50	0.0137	-0.1472	0.9137	-7.4386	-0.0110	0.8133	-10.7431	
25	0.01	10.30	0.0191	-0.1177	0.7984	-7.0960	-0.0130	0.7922	-6.1644	
26	0.01	11.11	-0.0029	-0.0709	0.6320	-6.7441	-0.0070	0.7554	-24.4620	
27	0.01	11.88	0.0032	-0.0385	0.4618	-6.5188	-0.0080	0.7247	-12.0250	
28	0.01	12.71	0.0039	-0.0685	0.3265	-6.1453	-0.0260	0.6843	-17.5538	
29	0.01	13.43	-0.0113	0.0078	0.1637	-5.8414	-0.0320	0.6392	-0.6920	
30	0.01	14.24	0.0211	-0.0535	-0.0168	-5.5698	-0.0430	0.5949	-2.5374	
31	0.02	14.99	0.0165	-0.0131	-0.1833	-5.2217	-0.0400	0.5513	-0.7439	
32	0.02	15.78	-0.0126	0.0820	-0.4256	-4.8024	-0.0410	0.4948	-0.5587	
33	0.01	16.54	0.0490	-0.1226	-0.5734	-4.6035	-0.0580	0.4458	-2.5020	
34	0.02	17.39	0.0059	0.0167	-0.7782	-4.2128	-0.0440	0.4004	-2.8373	
35	0.02	18.21	0.0044	0.0668	-0.9402	-3.9931	-0.0440	0.3644	-7.1106	
36	0.01	19.03	0.0503	-0.1194	-1.1641	-3.6405	-0.0570	0.3024	-2.3742	
37	0.02	19.83	-0.0357	0.1380	-1.4585	-3.3074	-0.0270	0.2367	-3.8650	

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH W10-6												
6		66.0.97 1.7		PH1 CONF		C		DEL1 DEL2 DEL3 DEL4		TRANSITION		
6		66.0.97 1.7		0.0 02#013		0.0		30 0 30 0		FIXED		
POINT	ALPHA	H/TA	CNF1	CH1	CH1	XCNF1	YCNF1	CNF2	CH2	CH2	XCNF2	YCNF2
1	0.01	-16.45	1.3453	-0.0184	0.5420	-0.0133	0.3913	0.0137	0.0047	-0.0058	0.3396	-0.4259
2	0.01	-15.80	1.3715	-0.0172	0.5379	-0.0125	0.3922	0.0	0.0042	-0.0134	0.0042	-0.0134
3	0.01	-14.83	1.3500	-0.0155	0.5309	-0.0115	0.3932	-0.0023	0.0036	-0.0152	-1.5662	6.5941
4	0.01	-13.99	1.3514	-0.0146	0.5314	-0.0108	0.3932	0.0060	0.0063	-0.0148	1.0507	-2.6335
5	0.01	-13.18	1.3309	-0.0137	0.5233	-0.0099	0.3932	0.0057	0.0023	-0.0127	0.4081	-2.2282
6	0.01	-12.37	1.3430	-0.0132	0.5294	-0.0098	0.3942	0.0059	0.0004	-0.0129	0.0636	-2.1922
7	0.01	-11.62	1.3424	-0.0127	0.5291	-0.0096	0.3940	-0.0060	0.0026	-0.0165	-0.4378	2.7499
8	0.0	-10.82	1.3440	-0.0128	0.5331	-0.0095	0.3965	0.0024	0.0010	-0.0159	0.4065	-6.6251
9	0.0	-10.10	1.3453	-0.0116	0.5329	-0.0087	0.3961	0.0099	0.0006	-0.0123	0.0606	-1.2425
10	0.0	-9.32	1.3556	-0.0116	0.5368	-0.0086	0.3960	0.0179	0.0011	-0.0051	0.0587	-0.2869
11	0.0	-8.56	1.3597	-0.0113	0.5431	-0.0083	0.3994	0.0143	0.0005	-0.0075	0.0315	-0.5269
12	0.0	-7.77	1.3756	-0.0110	0.5454	-0.0080	0.3965	0.0149	0.0003	-0.0098	0.0201	-0.6601
13	0.0	-7.00	1.4605	-0.0127	0.5861	-0.0087	0.4013	0.0250	0.0002	-0.0044	0.0087	-0.1706
14	0.0	-6.15	1.4772	-0.0128	0.5921	-0.0086	0.4008	0.0403	0.0002	0.0001	0.0037	0.0032
15	0.0	-5.44	1.4711	-0.0122	0.5938	-0.0083	0.4037	0.0144	0.0004	-0.0080	0.0261	-0.5557
16	0.0	-4.67	1.4816	-0.0131	0.5992	-0.0088	0.4044	0.0058	0.0006	-0.0127	0.1035	-7.1840
17	0.0	-3.89	1.4687	-0.0118	0.5953	-0.0090	0.4058	-0.0074	0.0005	-0.0155	-0.0710	2.0900
18	0.0	-3.06	1.4549	-0.0102	0.5898	-0.0070	0.4054	-0.0112	0.0004	-0.0168	-0.0335	1.5029
19	0.0	-2.29	1.4658	-0.0092	0.5962	-0.0062	0.4067	0.0003	0.0010	-0.0131	3.2520	-43.6668
20	0.01	-1.47	1.4473	-0.0076	0.5910	-0.0052	0.4084	-0.0154	0.0003	-0.0172	-0.0195	1.1189
21	0.01	-0.69	1.4169	-0.0060	0.5812	-0.0042	0.4102	-0.0073	0.0007	-0.0163	-0.0425	2.2373
22	0.01	0.88	1.1119	0.0164	0.4704	0.0165	0.4234	-0.0116	0.0008	-0.0159	-0.0712	1.3677
23	0.01	4.66	1.0302	0.0194	0.4460	0.0167	0.4292	-0.0026	0.0012	-0.0129	-0.4618	4.9486
24	0.0	5.50	0.9404	0.0210	0.4197	0.0214	0.4281	0.0012	0.0017	-0.0112	1.4384	-9.3334
25	0.01	10.30	0.9245	0.0226	0.3944	0.0247	0.4266	-0.0039	0.0011	-0.0132	-0.2694	3.3845
26	0.01	11.11	0.8681	0.0222	0.3745	0.0245	0.4314	-0.0050	0.0008	-0.0142	-0.1501	2.8332
27	0.01	11.88	0.8218	0.0152	0.3616	0.0185	0.4400	0.0016	0.0011	-0.0126	0.7036	-7.4543
28	0.01	12.71	0.7590	0.0150	0.3372	0.0206	0.4442	0.0004	0.0004	-0.0148	0.4690	-18.5418
29	0.01	13.43	0.6987	0.0146	0.3100	0.0212	0.4436	0.0022	0.0007	-0.0150	0.3070	-6.8031
30	0.01	14.24	0.6250	0.0143	0.2805	0.0229	0.4488	0.0067	0.0013	-0.0107	0.1904	-1.5922
31	0.02	14.99	0.5704	0.0133	0.2574	0.0233	0.4513	0.0093	0.0015	-0.0099	0.1614	-1.0646
32	0.02	15.78	0.5037	0.0109	0.2256	0.0216	0.4478	0.0099	0.0012	-0.0123	0.1213	-1.7425
33	0.01	16.54	0.4486	0.0092	0.2017	0.0206	0.4496	0.0246	0.0029	-0.0037	0.1159	-0.1505
34	0.02	17.39	0.3788	0.0054	0.1737	0.0143	0.4587	0.0131	0.0020	-0.0085	0.1547	-0.6515
35	0.02	18.21	0.3104	0.0014	0.1466	0.0044	0.4725	0.0080	0.0025	-0.0107	0.3096	-1.3418
36	0.01	19.03	0.2431	-0.0023	0.1230	-0.0093	0.5061	0.0171	0.0032	-0.0079	0.1843	-0.4621
37	0.02	19.83	0.2003	-0.0053	0.1051	-0.0266	0.5245	0.0186	0.0020	-0.0077	0.1089	-0.4141

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART WACH RX10-A												PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 66 0.91 1.7												0.0	82WOF13	0.0	30	0	30	0	FIXED
POINT	ALPHA	HFTA	CNF3	CM3	CH3	XCPE3	YCPE3	CNF4	CM4	CH4	XCPE4	YCPE4							
1	0.01	-16.45	1.4003	-0.0052	0.5440	-0.0047	0.3445	-0.0092	-0.0118	0.0018	0.1129	-0.0179							
2	0.01	-15.60	1.3754	-0.0033	0.5497	-0.0074	0.3423	-0.0141	-0.0092	0.0059	0.1172	-0.0752							
3	0.01	-14.83	1.3754	-0.0023	0.5344	-0.0016	0.3444	-0.0820	-0.0092	0.0070	0.1117	-0.0851							
4	0.01	-13.44	1.3520	-0.0008	0.5120	-0.0006	0.3935	-0.0818	-0.0093	0.0049	0.1136	-0.0849							
5	0.01	-13.18	1.3367	0.0004	0.5249	0.0006	0.3926	-0.0817	-0.0095	0.0070	0.1157	-0.0854							
6	0.01	-12.37	1.3410	0.0020	0.5201	0.0015	0.3878	-0.0777	-0.0091	0.0065	0.1169	-0.0838							
7	0.01	-11.62	1.3410	0.0026	0.5191	0.0020	0.3871	-0.0777	-0.0091	0.0065	0.1169	-0.0838							
8	0.0	-10.82	1.3250	0.0041	0.5136	0.0031	0.3876	-0.0782	-0.0085	0.0085	0.1084	-0.1092							
9	0.0	-10.10	1.3024	0.0050	0.5066	0.0038	0.3890	-0.0797	-0.0075	0.0077	0.1257	-0.1291							
10	0.0	-9.37	1.2454	0.0065	0.5014	0.0050	0.3870	-0.0834	-0.0075	0.0082	0.1184	-0.1289							
11	0.0	-8.56	1.2481	0.0065	0.5013	0.0053	0.3891	-0.0832	-0.0077	0.0081	0.1211	-0.1288							
12	0.0	-7.77	1.3040	0.0065	0.5082	0.0050	0.3897	-0.0806	-0.0064	0.0117	0.1053	-0.1432							
13	0.0	-7.00	1.3255	0.0065	0.5147	0.0049	0.3880	-0.0711	-0.0074	0.0109	0.1045	-0.1534							
14	0.0	-6.15	1.2444	0.0085	0.4987	0.0066	0.3883	-0.0644	-0.0064	0.0127	0.0991	-0.1978							
15	0.0	-5.44	1.3815	0.0071	0.5386	0.0051	0.3899	-0.0671	-0.0070	0.0098	0.1040	-0.1467							
16	0.0	-4.67	1.4241	0.0061	0.5568	0.0043	0.3896	-0.0609	-0.0059	0.0136	0.0974	-0.2234							
17	0.0	-3.89	1.4638	0.0044	0.5684	0.0033	0.3886	-0.0639	-0.0064	0.0108	0.0998	-0.1691							
18	0.0	-3.06	1.4764	0.0044	0.5741	0.0030	0.3889	-0.0633	-0.0068	0.0081	0.1079	-0.1281							
19	0.0	-2.23	1.4691	0.0053	0.5727	0.0046	0.3888	-0.0647	-0.0049	0.0127	0.1045	-0.2728							
20	0.01	-1.47	1.4644	0.0060	0.5729	0.0041	0.3912	-0.0618	-0.0053	0.0138	0.0862	-0.2234							
21	0.01	-0.69	1.4444	0.0081	0.5652	0.0056	0.3913	-0.0618	-0.0053	0.0138	0.0862	-0.2234							
22	0.01	0.69	1.1841	0.0340	0.4860	0.0287	0.4104	-0.0465	-0.0075	0.0127	0.1614	-0.2732							
23	0.01	4.66	1.1334	0.0348	0.4612	0.0307	0.4069	-0.0437	-0.0079	0.0170	0.1803	-0.3899							
24	0.0	9.50	1.0755	0.0375	0.4363	0.0348	0.4057	-0.0397	-0.0102	0.0173	0.2571	-0.4350							
25	0.01	10.30	1.0144	0.0381	0.4098	0.0375	0.4040	-0.0418	-0.0113	0.0116	0.2693	-0.2768							
26	0.01	11.11	0.9498	0.0387	0.3647	0.0403	0.4008	-0.0415	-0.0132	0.0117	0.3183	-0.2812							
27	0.01	11.88	0.9081	0.0333	0.3197	0.0367	0.4142	-0.0525	-0.0137	0.0116	0.2616	-0.2211							
28	0.01	12.71	0.8599	0.0314	0.3553	0.0370	0.4132	-0.0774	-0.0111	0.0066	0.1435	-0.0854							
29	0.01	13.53	0.8069	0.0318	0.3317	0.0395	0.4120	-0.0800	-0.0116	0.0078	0.1454	-0.0355							
30	0.01	14.24	0.7449	0.0316	0.3054	0.0424	0.4100	-0.0937	-0.0126	-0.0014	0.1347	0.0148							
31	0.02	14.99	0.6777	0.0305	0.2785	0.0450	0.4110	-0.0807	-0.0116	0.0029	0.1450	-0.0359							
32	0.02	15.78	0.5986	0.0288	0.2477	0.0480	0.4138	-0.0889	-0.0140	-0.0053	0.1570	0.0599							
33	0.01	16.54	0.5044	0.0276	0.2240	0.0508	0.4207	-0.1007	-0.0135	-0.0039	0.1343	0.0390							
34	0.02	17.39	0.4748	0.0231	0.1961	0.0483	0.4095	-0.1008	-0.0129	-0.0040	0.1282	0.0393							
35	0.02	18.21	0.4286	0.0205	0.1766	0.0478	0.4121	-0.1011	-0.0119	-0.0040	0.1181	0.0392							
36	0.01	19.03	0.3604	0.0161	0.1503	0.0448	0.4171	-0.0970	-0.0096	-0.0072	0.0991	0.0742							
37	0.02	19.83	0.2934	0.0109	0.1211	0.0371	0.4127	-0.0920	-0.0134	0.0036	0.1454	-0.0389							

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH X10-6										
6 67 1.01 1.7 0.0 82WOF13 0.0 30 0 30 0 FIXED										
POINT	ALPHA	MFA	CN	CLM	CY	CLN	CLL	CAP	ACP	
1	0.01	-19.40	0.0640	-0.2452	4.3441	-9.7633	-0.0040	1.1740	-3.6059	
2	0.0	-19.66	0.0706	-0.3324	4.2752	-9.6216	-0.0100	1.1761	-4.7144	
3	0.0	-19.92	0.0645	-0.2803	4.2764	-9.8441	-0.0090	1.1754	-4.4457	
4	0.01	-18.13	0.0532	-0.2255	4.1649	-9.8209	-0.0040	1.1855	-4.2383	
5	0.0	-17.24	0.0426	-0.3726	4.0085	-9.8233	0.0	1.1765	-4.0242	
6	0.0	-16.46	0.0781	-0.3063	3.9279	-9.9315	0.0130	1.1870	-3.4224	
7	0.0	-15.65	0.0453	-0.3254	3.8186	-9.9954	0.0100	1.2035	-3.8150	
8	0.0	-14.36	0.0465	-0.3631	3.6950	-9.9994	0.0130	1.2030	-4.1977	
9	0.01	-14.06	0.0667	-0.3053	3.5636	-9.9888	0.0270	1.2012	-3.5223	
10	0.01	-13.24	0.0447	-0.2971	3.5236	-10.0254	0.0270	1.1897	-3.3504	
11	0.0	-12.43	0.0576	-0.2716	3.3377	-9.9080	0.0290	1.1962	-4.7160	
12	0.01	-11.70	0.0744	-0.2446	3.2307	-9.9442	0.0330	1.1996	-3.8032	
13	0.0	-10.89	0.0440	-0.2372	3.1446	-9.8477	0.0280	1.1839	-4.9417	
14	0.01	-10.18	0.0729	-0.2700	3.0665	-9.8624	0.0350	1.1767	-3.7045	
15	0.0	-9.34	0.0717	-0.2973	2.9534	-9.8696	0.0350	1.1714	-4.1476	
16	0.0	-8.65	0.0674	-0.3193	2.8413	-9.8661	0.0420	1.1725	-4.7383	
17	0.01	-7.84	0.0684	-0.2637	2.8085	-10.0161	0.0390	1.1715	-4.8561	
18	0.01	-7.06	0.0713	-0.2506	2.6500	-10.2402	0.0370	1.1744	-3.6191	
19	0.0	-6.24	0.0442	-0.2542	2.7476	-10.2679	0.0470	1.1655	-5.6257	
20	0.0	-5.44	0.0776	-0.2126	2.6751	-10.3403	0.0360	1.1540	-5.6453	
21	0.01	-4.71	0.0444	-0.2097	2.7104	-10.4583	0.0270	1.1438	-4.3339	
22	0.01	-3.96	0.0500	-0.1890	2.5914	-10.4070	0.0220	1.1499	-3.7800	
23	0.01	-3.13	0.0344	-0.1631	2.5442	-10.5089	0.0230	1.1464	-4.7430	
24	0.01	-2.34	0.0212	-0.1567	2.4271	-10.3770	0.0190	1.1542	-7.3906	
25	0.01	-1.53	0.0466	-0.1452	2.3917	-10.2635	0.0050	1.1396	-4.1897	
26	0.01	-0.75	0.0265	-0.1701	2.2573	-10.0413	0.0040	1.1276	-6.4189	
27	0.01	0.06	0.0177	-0.1244	2.2286	-9.9112	0.0030	1.1091	-7.7322	
28	0.01	0.78	0.0200	-0.1270	2.1154	-9.6707	0.0080	1.0871	-6.3500	
29	0.0	1.57	0.0104	-0.1911	1.9940	-9.4158	0.0040	1.0642	-6.2052	
30	0.01	2.33	0.0469	-0.2016	1.9263	-9.3040	0.0030	1.0688	-4.2698	
31	0.01	3.13	0.0127	-0.1674	1.8614	-8.9686	0.0050	1.0314	-5.1364	
32	0.01	4.65	0.0146	-0.1400	1.6993	-8.9301	0.0060	1.0123	-10.2971	
33	0.01	4.67	0.0008	-0.0871	1.6101	-8.6873	0.0120	0.9938	-10.9449	
34	0.01	5.46	0.0206	-0.1494	1.4934	-8.4686	0.0070	0.9659	-7.2738	
35	0.01	6.26	0.0346	-0.1684	1.4531	-8.3845	0.0240	0.9612	-4.8682	
36	0.0	7.07	0.0462	-0.2287	1.3361	-8.2307	-0.0110	0.9437	-4.9498	
37	0.01	7.82	0.0317	-0.1604	1.1668	-7.9348	-0.0060	0.9150	-5.0593	
38	0.01	8.67	0.0257	-0.1140	1.0372	-7.6452	-0.0050	0.8894	-4.4350	
39	0.01	9.45	0.0298	-0.1317	0.8634	-7.3559	-0.0160	0.8417	-4.4201	
40	0.01	10.24	0.0217	-0.0892	0.7045	-6.9865	-0.0020	0.8247	-3.7629	
41	0.01	11.06	0.0113	-0.1188	0.6365	-6.7792	-0.0160	0.8095	-10.5150	
42	0.01	11.46	0.0046	-0.0258	0.4647	-6.4554	-0.0190	0.7701	-4.6143	
43	0.01	12.65	0.0192	-0.0414	0.2822	-6.1533	-0.0260	0.7320	-2.1412	
44	0.01	13.42	0.0002	-0.0133	0.1280	-5.8444	-0.0380	0.6844	-6.4000	
45	0.02	14.17	0.0119	-0.0037	-0.0305	-5.6546	-0.0330	0.6615	-0.3076	
46	0.02	14.95	0.0200	0.0130	-0.2967	-5.3889	-0.0390	0.6045	0.6400	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION									
6	67	1.01	1.7	0.0	02NOF13	0.0	30	0	30
									0 FIXED
POINT	ALPHA	HFTA	CN	CLM	CV	CLN	CLL	CAF	XCP
47	0.01	15.70	0.0207	-0.0350	-0.4266	-5.1909	-0.0490	0.5719	-1.6899
48	0.02	16.52	0.0516	-0.0702	-0.6356	-4.7924	-0.0610	0.5288	-1.3612
49	0.02	17.31	0.0292	-0.0289	-0.8458	-4.4762	-0.0550	0.4908	-0.9890
50	0.02	18.19	0.0593	-0.1100	-1.0060	-4.2069	-0.0640	0.4559	-1.8553
51	0.02	18.93	0.0193	0.0090	-1.3066	-3.9440	-0.0440	0.4009	0.4653
52	0.01	19.79	-0.0129	0.0441	-1.4681	-3.6649	-0.0370	0.3451	-3.4155

PAGE 2 OF 3
SHEET 1 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	WXL0-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		67	1.01	1.7	0.0	2200113	0.0	30	0	30	0	FIXED
POINT	ALPHA	HETA	CNF1	CHI1	CHI1	XCPF1	YCPF1	CNF2	CHI2	CHI2	XCPF2	YCPF2
1	0.01	-14.30	1.5415	-0.0321	0.6108	-0.0208	0.3962	0.0263	0.0027	-0.0029	0.1027	-0.1117
2	0.0	-19.68	1.5331	-0.0314	0.6100	-0.0205	0.3979	0.0372	0.0044	0.0026	0.1190	0.0698
3	0.0	-18.92	1.5426	-0.0313	0.6132	-0.0203	0.3975	0.0232	-0.0005	0.0002	-0.0226	0.0099
4	0.01	-18.13	1.5305	-0.0302	0.6089	-0.0197	0.3978	0.0249	0.0024	-0.0025	0.0964	-0.1005
5	0.0	-17.24	1.5148	-0.0283	0.6035	-0.0187	0.3984	0.0300	0.0035	-0.0015	0.1151	-0.0501
6	0.0	-16.46	1.5203	-0.0276	0.6072	-0.0182	0.3994	0.0192	0.0014	-0.0067	0.0743	-0.3491
7	0.0	-15.65	1.5163	-0.0269	0.6055	-0.0177	0.3993	0.0216	0.0020	-0.0059	0.0938	-0.2733
8	0.0	-14.46	1.5157	-0.0259	0.6061	-0.0170	0.3999	0.0252	0.0039	-0.0048	0.1549	-0.1906
9	0.01	-14.08	1.5098	-0.0249	0.6047	-0.0165	0.4005	0.0195	-0.0004	-0.0078	-0.0192	-0.4001
10	0.01	-13.24	1.4999	-0.0235	0.6005	-0.0157	0.4003	0.0134	0.0007	-0.0108	0.0504	-0.8086
11	0.0	-12.43	1.4888	-0.0225	0.5964	-0.0151	0.4006	0.0084	0.0011	-0.0126	0.1340	-1.5001
12	0.01	-11.70	1.4848	-0.0214	0.5944	-0.0144	0.4003	0.0047	0.0005	-0.0139	0.1118	-2.9647
13	0.0	-10.89	1.4506	-0.0194	0.5849	-0.0133	0.4010	0.0025	0.0022	-0.0166	0.8705	-6.6268
14	0.01	-10.18	1.4607	-0.0184	0.5865	-0.0126	0.4015	0.0059	0.0005	-0.0133	0.0890	-2.2600
15	0.0	-9.39	1.4681	-0.0175	0.5867	-0.0119	0.3997	0.0097	0.0010	-0.0128	0.1006	-1.3163
16	0.0	-8.65	1.4694	-0.0169	0.5849	-0.0115	0.4009	0.0060	0.0013	-0.0140	0.2126	-2.3335
17	0.01	-7.84	1.4827	-0.0161	0.5961	-0.0108	0.4020	0.0104	0.0003	-0.0115	0.0278	-1.0649
18	0.01	-7.06	1.4934	-0.0153	0.6017	-0.0102	0.4016	0.0057	0.0004	-0.0124	0.0658	-2.1756
19	0.0	-6.26	1.4908	-0.0152	0.6055	-0.0101	0.4045	0.0023	0.0010	-0.0152	0.4242	-6.6233
20	0.0	-5.49	1.5052	-0.0163	0.6125	-0.0108	0.4069	0.0011	0.0004	-0.0156	0.3411	-14.2122
21	0.01	-4.71	1.4977	-0.0150	0.6109	-0.0100	0.4079	0.0021	0.0008	-0.0145	0.3931	-6.9049
22	0.01	-3.96	1.4947	-0.0131	0.6049	-0.0088	0.4081	0.0029	0.0007	-0.0122	0.2329	-4.2185
23	0.01	-3.13	1.4964	-0.0118	0.6140	-0.0079	0.4103	-0.0061	0.0005	-0.0191	-0.0861	3.1365
24	0.01	-2.34	1.4875	-0.0116	0.6100	-0.0078	0.4101	-0.0057	0.0013	-0.0158	-0.2238	2.7718
25	0.01	-1.53	1.4547	-0.0107	0.5988	-0.0073	0.4116	-0.0035	0.0014	-0.0139	-0.3860	3.9618
26	0.01	-0.75	1.4249	-0.0092	0.5859	-0.0064	0.4100	-0.0059	0.0008	-0.0147	-0.1394	2.4858
27	0.01	0.06	1.3918	-0.0073	0.5749	-0.0052	0.4131	-0.0030	0.0009	-0.0155	-0.3002	5.1665
28	0.01	0.78	1.3620	-0.0041	0.5559	-0.0030	0.4061	-0.0080	0.0005	-0.0171	-0.0657	2.1332
29	0.0	1.57	1.3298	-0.0020	0.5464	-0.0015	0.4109	0.0006	0.0015	-0.0141	2.5016	-23.5001
30	0.01	2.33	1.2903	0.0003	0.5314	0.0002	0.4118	-0.0005	0.0011	-0.0150	-2.2514	29.9332
31	0.01	3.13	1.2585	0.0035	0.5194	0.0028	0.4134	0.0011	0.0003	-0.0157	0.2729	-14.3031
32	0.01	3.95	1.2226	0.0070	0.5037	0.0057	0.4120	-0.0018	0.0009	-0.0148	-0.5003	8.2221
33	0.01	4.67	1.1943	0.0110	0.4926	0.0092	0.4125	-0.0049	0.0001	-0.0144	-0.0153	3.7618
34	0.01	5.46	1.1604	0.0135	0.4799	0.0116	0.4136	-0.0004	0.0007	-0.0152	-1.6486	38.0832
35	0.01	6.26	1.1276	0.0115	0.4693	0.0098	0.4276	-0.0038	0.0007	-0.0175	-0.1777	4.5464
36	0.0	7.07	1.1163	0.0109	0.4770	0.0092	0.4265	0.0181	0.0024	-0.0097	0.1327	-0.5342
37	0.01	7.82	1.0998	0.0107	0.4599	0.0101	0.4283	0.0069	0.0014	-0.0125	0.2067	-1.8117
38	0.01	8.67	1.0832	0.0131	0.4298	0.0130	0.4285	0.0020	0.0011	-0.0141	0.5629	-7.0668
39	0.01	9.45	0.9510	0.0149	0.4064	0.0156	0.4274	0.0094	0.0014	-0.0119	0.1517	-1.2625
40	0.01	10.29	0.9014	0.0087	0.3474	0.0097	0.4409	0.0083	0.0014	-0.0127	0.1718	-1.5343
41	0.01	11.08	0.8610	0.0100	0.3783	0.0116	0.4344	0.0083	0.0011	-0.0125	0.1266	-1.5102
42	0.01	11.88	0.8022	0.0110	0.3548	0.0137	0.4422	0.0021	0.0008	-0.0146	0.3931	-6.9525
43	0.01	12.65	0.7517	0.0107	0.3292	0.0142	0.4380	0.0094	0.0014	-0.0130	0.1455	-1.3300
44	0.01	13.42	0.6863	0.0104	0.3028	0.0151	0.4412	0.0114	0.0012	-0.0140	0.1053	-1.2282
45	0.02	14.17	0.6318	0.0104	0.2823	0.0164	0.4468	0.0166	0.0008	-0.0128	0.0497	-0.7692
46	0.02	14.95	0.5827	0.0090	0.2502	0.0160	0.4447	0.0210	0.0021	-0.0092	0.1001	-0.4382

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART NAME		MODEL	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
h		67 1.01 1.7	0.0	0.20013	0.0	30	0	30	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	0.01	15.70	0.4053	0.0076	0.2236	0.0150	0.4417	0.0096	0.0010	-0.0130	0.0996	-1.3300
48	0.02	16.52	0.4301	0.0040	0.1915	0.0093	0.4451	0.0351	0.0031	-0.0022	0.0877	-0.0628
49	0.02	17.31	0.3653	0.0004	0.1644	0.0010	0.4502	0.0310	0.0024	-0.0021	0.0775	-0.0668
50	0.02	18.14	0.2921	-0.0036	0.1362	-0.0123	0.4665	0.0208	0.0010	-0.0042	0.0669	-0.4408
51	0.02	18.93	0.2458	-0.0071	0.1168	-0.0287	0.4753	0.0309	0.0021	-0.0021	0.0680	-0.0681
52	0.01	19.79	0.1952	-0.0103	0.0942	-0.0577	0.4824	0.0252	0.0016	-0.0060	0.0625	-0.2382

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH PX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 67 1.01 1.7				0.0	h2w0f13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	0.01	-19.90	1.5581	-0.0177	0.6065	-0.0114	0.3893	-0.0985	-0.0123	0.0001	0.1251	-0.0011
2	0.0	-19.68	1.5478	-0.0176	0.6063	-0.0114	0.3917	-0.0993	-0.0119	0.0027	0.1203	-0.0277
3	0.0	-18.92	1.5354	-0.0166	0.6053	-0.0108	0.3942	-0.0985	-0.0129	0.0001	0.1312	-0.0011
4	0.01	-18.13	1.5371	-0.0153	0.6008	-0.0100	0.3909	-0.1102	-0.0123	0.0034	0.1118	-0.0310
5	0.0	-17.24	1.5129	-0.0137	0.5959	-0.0090	0.3888	-0.0474	-0.0106	0.0083	0.1088	-0.0851
6	0.0	-16.46	1.5042	-0.0114	0.5904	-0.0079	0.3917	-0.0935	-0.0107	0.0072	0.1149	-0.0768
7	0.0	-15.65	1.5161	-0.0111	0.5907	-0.0073	0.3896	-0.0964	-0.0113	0.0056	0.1177	-0.0583
8	0.0	-14.86	1.5048	-0.0098	0.5887	-0.0065	0.3915	-0.1001	-0.0113	0.0067	0.1126	-0.0664
9	0.01	-14.06	1.4878	-0.0083	0.5780	-0.0056	0.3885	-0.0932	-0.0103	0.0085	0.1104	-0.0911
10	0.01	-13.24	1.4758	-0.0068	0.5761	-0.0046	0.3904	-0.0783	-0.0098	0.0067	0.1256	-0.0857
11	0.0	-12.43	1.4641	-0.0057	0.5744	-0.0039	0.3923	-0.0782	-0.0098	0.0066	0.1257	-0.0849
12	0.01	-11.70	1.4595	-0.0047	0.5724	-0.0032	0.3922	-0.0888	-0.0102	0.0079	0.1149	-0.0891
13	0.0	-10.89	1.4575	-0.0029	0.5650	-0.0020	0.3877	-0.0778	-0.0102	0.0067	0.1312	-0.0858
14	0.01	-10.18	1.4353	-0.0019	0.5623	-0.0013	0.3918	-0.0716	-0.0087	0.0090	0.1216	-0.1263
15	0.0	-9.39	1.4305	-0.0005	0.5589	-0.0004	0.3907	-0.0721	-0.0087	0.0110	0.1207	-0.1522
16	0.0	-8.65	1.4392	0.0005	0.5625	0.0003	0.3908	-0.0721	-0.0087	0.0110	0.1207	-0.1522
17	0.01	-7.84	1.4386	0.0018	0.5644	0.0013	0.3923	-0.0730	-0.0075	0.0136	0.1028	-0.1860
18	0.01	-7.06	1.4650	0.0022	0.5732	0.0015	0.3913	-0.0717	-0.0083	0.0091	0.1151	-0.1270
19	0.0	-6.24	1.4677	0.0026	0.5748	0.0018	0.3916	-0.0722	-0.0083	0.0110	0.1143	-0.1529
20	0.0	-5.49	1.4866	0.0023	0.5850	0.0015	0.3935	-0.0722	-0.0081	0.0110	0.1123	-0.1529
21	0.01	-4.71	1.5147	0.0007	0.5930	0.0004	0.3902	-0.0694	-0.0072	0.0132	0.1038	-0.1898
22	0.01	-3.96	1.5291	0.0017	0.5933	0.0011	0.3880	-0.0762	-0.0074	0.0121	0.0965	-0.1589
23	0.01	-3.13	1.5280	0.0026	0.6004	0.0017	0.3929	-0.0726	-0.0074	0.0117	0.1013	-0.1613
24	0.01	-2.34	1.5262	0.0032	0.6022	0.0021	0.3946	-0.0701	-0.0062	0.0145	0.0878	-0.2074
25	0.01	-1.53	1.5152	0.0037	0.5969	0.0024	0.3940	-0.0697	-0.0066	0.0133	0.0948	-0.1905
26	0.01	-0.75	1.4894	0.0044	0.5846	0.0033	0.3951	-0.0702	-0.0067	0.0146	0.0951	-0.2091
27	0.01	0.06	1.4612	0.0066	0.5780	0.0045	0.3956	-0.0593	-0.0062	0.0133	0.1038	-0.2250
28	0.01	0.78	1.5144	0.0102	0.5886	0.0077	0.3938	-0.0592	-0.0062	0.0133	0.1039	-0.2242
29	0.0	1.57	1.4940	0.0136	0.5439	0.0097	0.3899	-0.0563	-0.0060	0.0154	0.1066	-0.2742
30	0.01	2.33	1.3730	0.0165	0.5354	0.0120	0.3899	-0.0573	-0.0047	0.0187	0.0825	-0.3265
31	0.01	3.13	1.3428	0.0190	0.5201	0.0143	0.3902	-0.0484	-0.0060	0.0127	0.1240	-0.2614
32	0.01	3.85	1.2976	0.0211	0.5072	0.0163	0.3904	-0.0601	-0.0060	0.0166	0.0999	-0.2758
33	0.01	4.67	1.2678	0.0249	0.4871	0.0196	0.3848	-0.0700	-0.0066	0.0146	0.0943	-0.2082
34	0.01	5.46	1.2374	0.0285	0.4803	0.0230	0.3842	-0.0627	-0.0068	0.0143	0.1077	-0.2282
35	0.01	6.26	1.1470	0.0311	0.4719	0.0260	0.3942	-0.0631	-0.0074	0.0148	0.1166	-0.2648
36	0.0	7.07	1.1429	0.0270	0.4916	0.0226	0.4121	-0.0563	-0.0081	0.0186	0.1440	-0.3293
37	0.01	7.82	1.1412	0.0270	0.4864	0.0236	0.4048	-0.0593	-0.0082	0.0164	0.1379	-0.2772
38	0.01	8.67	1.0435	0.0284	0.4438	0.0260	0.4059	-0.0560	-0.0089	0.0179	0.1595	-0.3204
39	0.01	9.45	1.0548	0.0294	0.4227	0.0279	0.4008	-0.0590	-0.0101	0.0164	0.1717	-0.2786
40	0.01	10.29	0.9920	0.0297	0.4020	0.0299	0.4052	-0.0557	-0.0131	0.0187	0.2358	-0.3346
41	0.01	11.06	0.9766	0.0243	0.3961	0.0249	0.4055	-0.0440	-0.0147	0.0148	0.3343	-0.3372
42	0.01	11.88	0.9039	0.0254	0.3696	0.0283	0.4062	-0.0712	-0.0133	0.0085	0.1866	-0.1190
43	0.01	12.65	0.8451	0.0268	0.3505	0.0313	0.4099	-0.0888	-0.0143	0.0073	0.1606	-0.0823
44	0.01	13.42	0.7950	0.0270	0.3228	0.0339	0.4061	-0.0948	-0.0149	0.0073	0.1577	-0.0288
45	0.02	14.17	0.7375	0.0261	0.3027	0.0354	0.4104	-0.0855	-0.0135	0.0070	0.1580	-0.0820
46	0.02	14.95	0.6713	0.0261	0.2718	0.0388	0.4049	-0.0974	-0.0152	0.0001	0.1558	-0.0008

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	REX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
A		67	1.01	1.7	0.0	W2WOF13	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	0.01	15.70	0.6164	0.0249	0.2458	0.0403	0.3988	-0.0983	-0.0137	-0.0038	0.1420	0.0390
48	0.02	16.52	0.5418	0.0219	0.2163	0.0403	0.3991	-0.1092	-0.0163	-0.0047	0.1493	0.0427
49	0.02	17.31	0.4794	0.0193	0.1853	0.0382	0.3866	-0.1119	-0.0171	-0.0049	0.1530	0.0434
50	0.02	18.19	0.4325	0.0137	0.1618	0.0316	0.3742	-0.1149	-0.0134	-0.0084	0.1170	0.0728
51	0.02	18.93	0.3841	0.0101	0.1370	0.0278	0.3764	-0.1020	-0.0151	-0.0029	0.1480	0.0280
52	0.01	19.79	0.3050	0.0059	0.1139	0.0195	0.3736	-0.1033	-0.0135	0.0010	0.1309	-0.0098

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MPLM	RA10-6	PM1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	6R	1.05 1.7	0.0	B2WOF13	0.0	30	0	30	0	Fixed
POINT	ALPHA	MEIA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.02	-19.86	0.0802	-0.3052	4.4442	-10.0274	-0.0040	1.2644	-3.4065	
2	0.02	-19.82	0.1013	-0.3648	4.6103	-10.0499	-0.0110	1.2542	-3.6014	
3	0.01	-19.47	0.0791	-0.3657	4.4814	-9.9875	-0.0180	1.2730	-4.0238	
4	0.02	-18.74	0.1213	-0.3038	4.3530	-9.9747	-0.0120	1.2678	-3.1442	
5	0.01	-17.84	0.0775	-0.3645	4.1591	-10.0141	-0.0170	1.2596	-4.7032	
6	0.01	-17.07	0.0925	-0.3918	4.0717	-10.0348	-0.0080	1.2503	-4.2724	
7	0.02	-16.24	0.0946	-0.3644	3.9356	-10.0092	-0.0030	1.2458	-3.6590	
8	0.01	-15.45	0.0477	-0.3607	3.8389	-10.0508	-0.0020	1.2428	-4.1138	
9	0.01	-14.63	0.0755	-0.3557	3.6595	-9.9707	0.0110	1.2374	-4.7113	
10	0.02	-13.82	0.0885	-0.4421	3.5969	-10.0480	0.0200	1.2385	-3.9549	
11	0.02	-13.02	0.0742	-0.3208	3.4337	-10.0164	0.0160	1.2516	-4.3245	
12	0.02	-12.23	0.0840	-0.2546	3.3249	-10.0551	0.0170	1.2534	-3.1500	
13	0.02	-11.47	0.0624	-0.2613	3.3086	-10.1123	0.0300	1.2404	-4.1885	
14	0.02	-10.73	0.0451	-0.2341	3.1581	-10.1416	0.0300	1.2549	-4.3220	
15	0.02	-10.01	0.0741	-0.2717	3.0576	-10.0879	0.0300	1.2508	-3.6672	
16	0.02	-9.19	0.0647	-0.2405	3.0328	-10.2941	0.0340	1.2481	-4.4912	
17	0.02	-8.44	0.0710	-0.2804	3.0351	-10.4493	0.0440	1.2429	-3.9493	
18	0.02	-7.65	0.0475	-0.2495	2.9419	-10.5148	0.0510	1.2393	-3.4229	
19	0.02	-6.86	0.0577	-0.2417	2.8643	-10.5822	0.0340	1.2364	-4.1403	
20	0.02	-6.06	0.0512	-0.2257	2.8235	-10.6031	0.0320	1.2205	-4.4078	
21	0.02	-5.31	0.0533	-0.1726	2.7524	-10.5834	0.0200	1.2160	-3.2386	
22	0.02	-4.53	0.0480	-0.1872	2.7230	-10.6354	0.0240	1.2147	-3.9000	
23	0.02	-3.75	0.0376	-0.1684	2.6660	-10.5984	0.0160	1.2062	-4.2030	
24	0.02	-2.89	0.0314	-0.1519	2.5574	-10.5780	0.0110	1.2135	-4.4795	
25	0.02	-2.15	0.0172	-0.1151	2.5237	-10.4962	0.0130	1.2188	-6.6407	
26	0.02	-1.38	0.0478	-0.1623	2.3423	-10.2393	0.0120	1.2042	-3.4084	
27	0.02	-0.54	0.0357	-0.1850	2.2764	-10.0471	0.0060	1.1879	-5.1815	
28	0.02	0.17	0.0251	-0.1591	2.1631	-9.8335	0.0060	1.1690	-6.3402	
29	0.02	0.97	0.0254	-0.1355	2.0134	-9.5709	0.0040	1.1439	-5.3370	
30	0.02	1.71	0.0108	-0.0981	1.9601	-9.4223	0.0130	1.1306	-9.0852	
31	0.02	2.51	0.0143	-0.1240	1.8451	-9.1592	0.0120	1.1095	-6.6332	
32	0.02	3.26	0.0024	-0.0803	1.8111	-8.9905	0.0140	1.0888	-3.1493	
33	0.02	4.05	0.0391	-0.1807	1.7200	-8.8481	0.0130	1.0691	-4.1110	
34	0.02	4.80	0.0520	-0.1508	1.5510	-8.8345	0.0010	1.0708	-2.9000	
35	0.02	5.66	0.0164	-0.0976	1.4765	-8.4863	0.0	1.0446	-5.1787	
36	0.02	6.44	0.0242	-0.1574	1.3640	-8.3098	-0.0030	1.0178	-5.4044	
37	0.02	7.24	0.0304	-0.1525	1.2184	-8.0186	-0.0020	0.9866	-5.0184	
38	0.02	8.04	0.0504	-0.1762	1.1145	-7.8174	0.0	0.9555	-3.4629	
39	0.02	8.82	0.0429	-0.1370	0.9325	-7.3877	0.0	0.9248	-3.1944	
40	0.02	9.66	0.0046	-0.0684	0.8219	-7.1549	-0.0040	0.8499	-14.8782	
41	0.03	10.45	0.0423	-0.0947	0.7472	-6.9173	-0.0100	0.8773	-2.3456	
42	0.03	11.24	0.0222	-0.0621	0.5762	-6.5670	-0.0100	0.8342	-2.7964	
43	0.03	12.01	0.0124	-0.0154	0.2967	-6.1946	-0.0130	0.7871	-1.2787	
44	0.03	12.82	0.0337	-0.0462	0.2180	-5.8814	-0.0200	0.7438	-2.8540	
45	0.03	13.56	0.0258	-0.0471	-0.0044	-5.5811	-0.0230	0.6935	-1.8264	
46	0.03	14.36	0.0247	-0.0035	-0.1820	-5.2685	-0.0270	0.6613	-0.1449	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	WACH	W10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	6A	1.05	1.7	0.0	B2W0F13	0.0	30	0	30	0	FIXED
POINT	ALPHA	HETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.03	15.09	0.0293	-0.0390	-0.3024	-5.0314	-0.0400	0.6172	-1.3317		
48	0.03	15.92	0.0207	-0.0340	-0.4434	-4.6945	-0.0430	0.5430	-1.6415		
49	0.03	16.68	0.0633	-0.0446	-0.6410	-4.4859	-0.0460	0.5357	-1.3368		
50	0.03	17.52	0.0693	-0.1220	-0.8928	-4.1584	-0.0540	0.5062	-1.7607		
51	0.03	18.33	0.0616	-0.1072	-1.1944	-7.1522	-0.0510	0.4426	-1.7409		
52	0.03	19.15	0.0333	-0.0336	-1.3990	-3.5737	-0.0470	0.4105	-1.0096		
53	0.04	19.94	0.0462	0.0183	-1.5576	-3.3716	-0.0400	0.3776	0.3965		
54	0.03	19.95	0.0546	-0.1434	-1.5356	-3.3464	-0.0420	0.3585	-2.6271		

PAGE 2 OF 3
SHEET 1 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST POINT WACH AX10-6				PHI		CONF		L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	6H	1.05	1.7	0.0	82	0.01	13	0.0	30	0	30	0	FIXED
POINT	ALPHA	HETA	CNF1	CHI	CHI	XCNF1	YCNF1	CNF2	CH2	CH2	XCNF2	YCNF2	
1	0.02	-19.86	1.5431	-0.0366	0.6370	-0.0230	0.3939	0.0461	0.0019	0.0032	0.0520	0.0894	
2	0.02	-19.82	1.5816	-0.0369	0.6377	-0.0232	0.4017	0.0458	0.0020	0.0043	0.1753	0.0930	
3	0.01	-19.47	1.5736	-0.0360	0.6347	-0.0229	0.4013	0.0362	0.0056	0.0013	0.1555	0.0349	
4	0.02	-18.74	1.5614	-0.0349	0.6308	-0.0224	0.4040	0.0369	0.0077	0.0026	0.2074	0.0703	
5	0.01	-17.89	1.5543	-0.0328	0.6228	-0.0211	0.4007	0.0403	0.0068	0.0056	0.1635	0.1397	
6	0.01	-17.07	1.5385	-0.0314	0.6173	-0.0204	0.4012	0.0231	0.0056	-0.0053	0.2437	-0.2796	
7	0.02	-16.24	1.5194	-0.0300	0.6160	-0.0197	0.4054	0.0228	0.0053	-0.0041	0.2304	-0.1799	
8	0.01	-15.45	1.5123	-0.0287	0.6127	-0.0190	0.4048	0.0167	0.0065	-0.0065	0.3910	-0.3913	
9	0.01	-14.63	1.5010	-0.0275	0.6104	-0.0183	0.4067	0.0175	0.0041	-0.0037	0.2316	-0.2096	
10	0.02	-13.82	1.4972	-0.0260	0.6076	-0.0174	0.4058	0.0036	0.0035	-0.0108	0.9589	-3.0001	
11	0.02	-13.02	1.4940	-0.0247	0.6015	-0.0165	0.4015	0.0057	0.0046	-0.0092	0.8031	-1.6142	
12	0.02	-12.23	1.4986	-0.0240	0.6067	-0.0161	0.4053	0.0110	0.0027	-0.0088	0.2456	-0.8031	
13	0.02	-11.47	1.4949	-0.0231	0.6050	-0.0155	0.4047	-0.0054	0.0023	-0.0162	-0.4308	2.9999	
14	0.02	-10.73	1.5010	-0.0224	0.6074	-0.0149	0.4041	-0.0062	0.0026	-0.0184	-0.4237	2.9622	
15	0.02	-10.01	1.5108	-0.0220	0.6097	-0.0146	0.4035	0.0002	0.0020	-0.0121	4.7561	-60.6668	
16	0.02	-9.19	1.5231	-0.0205	0.6202	-0.0135	0.4072	-0.0019	0.0016	-0.0142	-0.8295	7.4911	
17	0.02	-8.44	1.5382	-0.0199	0.6258	-0.0129	0.4068	0.0003	0.0016	-0.0126	5.2533	-42.0001	
18	0.02	-7.65	1.5518	-0.0206	0.6329	-0.0133	0.4078	0.0055	0.0007	-0.0120	0.1228	-2.1759	
19	0.02	-6.88	1.5644	-0.0197	0.6301	-0.0128	0.4078	-0.0092	0.0012	-0.0161	-0.1305	1.7463	
20	0.02	-6.06	1.5408	-0.0183	0.6284	-0.0119	0.4078	-0.0068	0.0011	-0.0152	-0.1655	2.2303	
21	0.02	-5.31	1.5228	-0.0165	0.6233	-0.0108	0.4093	-0.0055	0.0012	-0.0155	-0.2183	2.4241	
22	0.02	-4.53	1.5149	-0.0146	0.6231	-0.0096	0.4100	-0.0085	0.0008	-0.0187	-0.0883	2.2038	
23	0.02	-3.75	1.5101	-0.0132	0.6222	-0.0088	0.4120	-0.0044	0.0011	-0.0145	-0.2388	3.2878	
24	0.02	-2.89	1.4927	-0.0134	0.6185	-0.0090	0.4143	-0.0066	0.0010	-0.0161	-0.1478	2.4393	
25	0.02	-2.15	1.4825	-0.0132	0.6146	-0.0069	0.4145	-0.0149	0.0002	-0.0191	-0.0151	1.2795	
26	0.02	-1.38	1.4597	-0.0127	0.6071	-0.0084	0.4169	-0.0036	0.0012	-0.0125	-0.3335	3.4721	
27	0.02	-0.58	1.4177	-0.0097	0.5907	-0.0068	0.4166	-0.0070	0.0014	-0.0144	-0.1930	2.0618	
28	0.02	0.17	1.3841	-0.0080	0.5758	-0.0058	0.4161	-0.0077	0.0017	-0.0137	-0.2293	1.9027	
29	0.02	0.97	1.3522	-0.0055	0.5620	-0.0041	0.4156	-0.0115	0.0004	-0.0170	-0.0326	1.4810	
30	0.02	1.71	1.3257	-0.0033	0.5499	-0.0025	0.4148	-0.0176	0.0	-0.0187	0.0	1.0605	
31	0.02	2.51	1.2860	-0.0008	0.5356	-0.0006	0.4165	-0.0141	0.0004	-0.0169	-0.0266	1.1985	
32	0.02	3.26	1.2694	0.0036	0.5261	0.0030	0.4145	-0.0208	-0.0006	-0.0209	0.0289	1.0063	
33	0.02	4.05	1.2345	0.0067	0.5202	0.0054	0.4214	-0.0119	0.0007	-0.0156	-0.0568	1.3080	
34	0.02	4.80	1.2272	0.0022	0.5280	0.0018	0.4302	-0.0107	0.0008	-0.0150	-0.0772	1.3986	
35	0.02	5.66	1.1763	0.0028	0.5066	0.0024	0.4307	-0.0137	0.0003	-0.0154	-0.0227	1.1665	
36	0.02	6.44	1.1270	0.0048	0.4838	0.0043	0.4243	-0.0091	0.0	-0.0159	0.0	1.7508	
37	0.02	7.24	1.0718	0.0059	0.4626	0.0055	0.4316	-0.0060	0.0008	-0.0138	-0.1376	2.1665	
38	0.02	8.04	1.0254	0.0076	0.4436	0.0074	0.4326	-0.0074	0.0009	-0.0120	-0.3752	4.9999	
39	0.02	8.82	0.9750	0.0065	0.4257	0.0066	0.4364	-0.0096	0.0001	-0.0141	-0.0078	1.4688	
40	0.02	9.66	0.9269	0.0073	0.4086	0.0079	0.4408	0.0001	0.0008	-0.0114	8.2551	-113.6667	
41	0.03	10.45	0.8618	0.0087	0.3821	0.0101	0.4434	-0.0073	0.0005	-0.0129	-0.0617	1.7716	
42	0.03	11.29	0.8082	0.0091	0.3588	0.0112	0.4439	-0.0064	0.0007	-0.0115	-0.1055	1.8020	
43	0.03	12.01	0.7505	0.0095	0.3311	0.0127	0.4412	-0.0073	0.0003	-0.0129	-0.0411	1.7716	
44	0.03	12.82	0.6901	0.0093	0.3073	0.0135	0.4453	0.0048	0.0011	-0.0095	0.2345	-1.9793	
45	0.03	13.56	0.6410	0.0094	0.2815	0.0146	0.4392	-0.0005	0.0008	-0.0090	-1.6510	17.9332	
46	0.03	14.36	0.5681	0.0085	0.2517	0.0149	0.4431	-0.0031	0.0008	-0.0089	-0.2663	2.8816	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART NAME RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 BR 1.05 1.7			0.0	B2#0F13	0.0	30	0	30	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	0.03	15.09	0.4875	0.0064	0.2240	0.0133	0.4415	0.0077	0.0011	-0.0052	0.1462	-0.6798
48	0.03	15.92	0.4450	0.0047	0.1991	0.0105	0.4474	0.0007	0.0006	-0.0068	2.0012	-22.6668
49	0.03	16.64	0.3864	0.0015	0.1742	0.0039	0.4508	0.0136	0.0014	-0.0028	0.1048	-0.2035
50	0.03	17.52	0.3116	-0.0028	0.1463	-0.0089	0.4497	0.0159	0.0017	-0.0016	0.1086	-0.1007
51	0.03	18.33	0.2530	-0.0060	0.1226	-0.0237	0.4447	0.0177	0.0008	-0.0031	0.0424	-0.1753
52	0.03	19.15	0.2013	-0.0095	0.1038	-0.0474	0.5156	0.0078	0.0006	-0.0055	0.0770	-0.7052
53	0.04	19.94	0.1453	-0.0130	0.0805	-0.0935	0.5543	0.0056	0.0007	-0.0073	0.1206	-1.3096
54	0.03	19.95	0.1396	-0.0135	0.0767	-0.0968	0.5497	0.0194	0.0015	0.0003	0.0774	0.0136

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	0.02	-19.86	1.5958	-0.0227	0.6284	-0.0147	0.3938	-0.0865	-0.0161	-0.0045	0.1465	0.0523
2	0.02	-19.82	1.6155	-0.0234	0.6359	-0.0145	0.3936	-0.0873	-0.0149	-0.0020	0.1711	0.0228
3	0.01	-19.47	1.6086	-0.0228	0.6367	-0.0142	0.3958	-0.0805	-0.0149	-0.0015	0.1855	0.0189
4	0.02	-18.74	1.5470	-0.0215	0.6310	-0.0134	0.3951	-0.0810	-0.0146	0.0004	0.1807	-0.0051
5	0.01	-17.84	1.5795	-0.0198	0.6266	-0.0126	0.3967	-0.0780	-0.0145	0.0019	0.1857	-0.0245
6	0.01	-17.07	1.5690	-0.0174	0.6213	-0.0114	0.3960	-0.0749	-0.0134	0.0027	0.1794	-0.0366
7	0.02	-16.74	1.5556	-0.0160	0.6124	-0.0103	0.3937	-0.0739	-0.0144	0.0002	0.1950	-0.0024
8	0.01	-15.45	1.5503	-0.0146	0.6104	-0.0094	0.3937	-0.0703	-0.0140	-0.0002	0.1986	0.0032
9	0.01	-14.63	1.5165	-0.0125	0.5995	-0.0082	0.3953	-0.0813	-0.0138	0.0029	0.1698	-0.0358
10	0.02	-13.82	1.5128	-0.0110	0.5984	-0.0073	0.3943	-0.0654	-0.0124	0.0072	0.1893	-0.1102
11	0.02	-13.02	1.5140	-0.0101	0.5943	-0.0066	0.3926	-0.0612	-0.0128	0.0049	0.2097	-0.0802
12	0.02	-12.23	1.5131	-0.0091	0.5931	-0.0060	0.3920	-0.0604	-0.0137	0.0024	0.2274	-0.0393
13	0.02	-11.47	1.4984	-0.0075	0.5902	-0.0050	0.3939	-0.0541	-0.0122	0.0041	0.2261	-0.0753
14	0.02	-10.73	1.4936	-0.0066	0.5939	-0.0044	0.3977	-0.0548	-0.0118	0.0065	0.2150	-0.1193
15	0.02	-10.01	1.4935	-0.0054	0.5889	-0.0036	0.3943	-0.0679	-0.0130	0.0051	0.1912	-0.0747
16	0.02	-9.14	1.5072	-0.0047	0.5941	-0.0031	0.3942	-0.0517	-0.0116	0.0061	0.2272	-0.1199
17	0.02	-8.44	1.4974	-0.0033	0.5945	-0.0022	0.3970	-0.0546	-0.0122	0.0065	0.2227	-0.1192
18	0.02	-7.65	1.5098	-0.0018	0.5968	-0.0017	0.3953	-0.0444	-0.0109	0.0060	0.2451	-0.1353
19	0.02	-6.86	1.5348	-0.0020	0.6124	-0.0013	0.3993	-0.0443	-0.0113	0.0059	0.2558	-0.1341
20	0.02	-6.06	1.5490	-0.0025	0.6114	-0.0016	0.3947	-0.0406	-0.0113	0.0049	0.2791	-0.1200
21	0.02	-5.31	1.5507	-0.0020	0.6174	-0.0013	0.3981	-0.0445	-0.0107	0.0060	0.2412	-0.1347
22	0.02	-4.53	1.5530	-0.0006	0.6203	-0.0004	0.3944	-0.0452	-0.0101	0.0084	0.2241	-0.1867
23	0.02	-3.75	1.5615	0.0003	0.6197	0.0002	0.3964	-0.0451	-0.0101	0.0079	0.2230	-0.1745
24	0.02	-2.84	1.5534	0.0010	0.6202	0.0006	0.3942	-0.0352	-0.0095	0.0042	0.2686	-0.2605
25	0.02	-2.15	1.5312	0.0002	0.6192	0.0001	0.4044	-0.0451	-0.0099	0.0079	0.2196	-0.1745
26	0.02	-1.36	1.5091	0.0015	0.6094	0.0010	0.4038	-0.0348	-0.0093	0.0073	0.2674	-0.2099
27	0.02	-0.54	1.4756	0.0044	0.5940	0.0030	0.4052	-0.0318	-0.0089	0.0088	0.2785	-0.2768
28	0.02	0.17	1.4637	0.0064	0.5487	0.0044	0.4047	-0.0287	-0.0084	0.0102	0.2929	-0.3567
29	0.02	0.97	1.4602	0.0075	0.5708	0.0054	0.4077	-0.0382	-0.0093	0.0077	0.2436	-0.2008
30	0.02	1.71	1.3864	0.0103	0.5584	0.0075	0.4045	-0.0429	-0.0084	0.0118	0.1959	-0.2752
31	0.02	2.51	1.3335	0.0125	0.5440	0.0093	0.4079	-0.0287	-0.0084	0.0102	0.2929	-0.3567
32	0.02	3.26	1.3004	0.0146	0.5306	0.0113	0.4079	-0.0445	-0.0098	0.0060	0.2209	-0.1342
33	0.02	4.05	1.3126	0.0206	0.5167	0.0157	0.3937	-0.0293	-0.0086	0.0127	0.2920	-0.4347
34	0.02	4.80	1.2919	0.0175	0.5442	0.0135	0.4213	-0.0342	-0.0094	0.0114	0.2393	-0.2918
35	0.02	5.66	1.2424	0.0170	0.5239	0.0137	0.4217	-0.0390	-0.0103	0.0114	0.2636	-0.2924
36	0.02	6.44	1.1916	0.0173	0.5047	0.0145	0.4224	-0.0359	-0.0107	0.0129	0.2989	-0.3604
37	0.02	7.24	1.1524	0.0197	0.4824	0.0171	0.4186	-0.0364	-0.0118	0.0155	0.3237	-0.4250
38	0.02	8.04	1.1022	0.0216	0.4645	0.0196	0.4214	-0.0264	-0.0131	0.0180	0.4975	-0.6819
39	0.02	8.82	1.0454	0.0212	0.4483	0.0203	0.4286	-0.0263	-0.0139	0.0180	0.5274	-0.6858
40	0.02	9.66	1.0035	0.0206	0.4254	0.0207	0.4239	-0.0354	-0.0146	0.0130	0.4113	-0.3674
41	0.03	10.45	0.9516	0.0214	0.4064	0.0230	0.4271	-0.0275	-0.0166	0.0102	0.6031	-0.3722
42	0.03	11.29	0.8999	0.0228	0.3779	0.0254	0.4199	-0.0384	-0.0157	0.0115	0.4085	-0.2996
43	0.03	12.01	0.8423	0.0231	0.3553	0.0275	0.4218	-0.0367	-0.0152	0.0057	0.4151	-0.1409
44	0.03	12.82	0.7762	0.0233	0.3290	0.0300	0.4236	-0.0394	-0.0157	0.0025	0.3981	-0.0627
45	0.03	13.56	0.7135	0.0234	0.3047	0.0328	0.4270	-0.0565	-0.0158	0.0020	0.2789	-0.0349
46	0.03	14.36	0.6400	0.0230	0.2806	0.0359	0.4384	-0.0544	-0.0167	-0.0019	0.3007	0.0336

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RX10-6			PHI	CNFB	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	6R	1.05	1.7	0.0	H2W0F13	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CM3	CM3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
47	0.03	15.09	0.5863	0.0216	0.2579	0.0368	0.4399	-0.0686	-0.0176	-0.0040	0.2571	0.0577
48	0.03	15.92	0.5295	0.0197	0.2325	0.0372	0.4390	-0.0713	-0.0182	-0.0067	0.2558	0.0864
49	0.03	16.68	0.4764	0.0173	0.2040	0.0364	0.4282	-0.0676	-0.0182	-0.0071	0.2687	0.1054
50	0.03	17.52	0.4104	0.0134	0.1814	0.0327	0.4429	-0.0689	-0.0159	-0.0163	0.2309	0.2360
51	0.03	18.33	0.3526	0.0089	0.1514	0.0251	0.4294	-0.0679	-0.0167	-0.0065	0.2465	0.0961
52	0.03	19.15	0.2926	0.0050	0.1264	0.0169	0.4321	-0.0739	-0.0182	-0.0089	0.2468	0.1208
53	0.04	19.94	0.2290	0.0011	0.1066	0.0046	0.4656	-0.0668	-0.0182	-0.0091	0.2719	0.1356
54	0.03	19.95	0.2404	0.0009	0.1034	0.0037	0.4302	-0.0569	-0.0140	-0.0103	0.2453	0.1803

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DPL4	TRANSITION
6	69	1.10	1.7	0.0	W20R13	0.0	30	0	30	0	FIXED
POINT	ALPHA	RLTA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	-19.85	0.0453	-0.2014	4.4051	-9.9637	0.0030	1.3438	-4.4464		
2	0.02	-19.44	0.0863	-0.2458	4.9044	-10.3352	-0.0190	1.2805	-3.4278		
3	0.02	-18.90	0.0484	-0.2787	4.4670	-10.0823	-0.0050	1.2932	-4.7264		
4	0.01	-17.92	0.0542	-0.2784	4.4277	-10.1703	-0.0050	1.3015	-5.1454		
5	0.03	-17.09	0.1106	-0.2844	4.1954	-10.0509	-0.0030	1.3001	-2.5754		
6	0.03	-16.32	0.0619	-0.1490	3.9845	-10.0867	0.0090	1.3257	-2.1953		
7	0.02	-15.54	0.0755	-0.2467	3.8962	-10.1660	0.0140	1.3012	-3.2675		
8	0.02	-14.71	0.0356	-0.1764	3.5836	-10.1914	0.0170	1.2764	-4.4674		
9	0.02	-13.94	0.0849	-0.2638	3.6840	-10.1040	0.0170	1.2846	-3.1079		
10	0.02	-13.06	0.0638	-0.1993	3.4249	-9.9691	0.0230	1.2861	-3.1241		
11	0.02	-12.31	0.0779	-0.2690	3.3515	-10.0663	0.0360	1.2826	-3.4539		
12	0.02	-11.56	0.0192	-0.1489	3.2811	-11.0077	0.0230	1.2743	-7.7542		
13	0.03	-10.78	0.0597	-0.1436	3.1624	-10.0276	0.0370	1.2662	-2.4050		
14	0.02	-10.06	0.0433	-0.1716	3.0847	-10.1238	0.0420	1.2635	-3.9635		
15	0.02	-9.31	0.0613	-0.1928	3.0440	-10.1368	0.0440	1.2507	-3.1455		
16	0.02	-8.52	0.0570	-0.1928	3.0563	-10.4170	0.0660	1.2476	-3.3825		
17	0.02	-7.77	0.0166	-0.1452	2.9653	-10.5346	0.0450	1.2538	-8.7494		
18	0.02	-6.95	0.0353	-0.1064	2.8070	-10.4530	0.0340	1.2441	-3.0147		
19	0.02	-6.16	0.0143	-0.0936	2.7616	-10.5044	0.0320	1.2436	-5.1158		
20	0.03	-5.39	0.0354	-0.1075	2.8219	-10.5798	0.0280	1.2387	-2.8972		
21	0.03	-4.63	0.0002	-0.0183	2.7479	-10.5612	0.0190	1.2263	-91.4000		
22	0.02	-3.84	-0.0111	-0.0705	2.6496	-10.4735	0.0180	1.2337	1.8432		
23	0.02	-3.05	0.0155	-0.0667	2.5130	-10.3493	0.0160	1.2391	-4.3032		
24	0.03	-2.22	0.0451	-0.1181	2.4894	-10.2448	0.0120	1.2204	-2.6195		
25	0.02	-1.48	0.0275	-0.0865	2.3668	-10.0766	0.0110	1.2256	-3.1455		
26	0.02	-0.63	0.0493	-0.1460	2.2762	-9.8978	0.0050	1.2019	-2.9619		
27	0.02	0.10	0.0162	-0.0697	2.1699	-9.6530	0.0130	1.1776	-4.3012		
28	0.03	0.87	0.0167	-0.0574	1.9494	-9.3769	0.0140	1.1551	-3.4359		
29	0.02	1.62	0.0200	-0.0680	1.8762	-9.2178	0.0140	1.1446	-3.4000		
30	0.03	2.44	0.0412	-0.0997	1.8739	-9.1045	0.0080	1.1292	-2.4194		
31	0.02	3.15	-0.0220	0.0298	1.7073	-8.8553	0.0160	1.1015	-1.3545		
32	0.03	3.92	0.0044	-0.0052	1.6390	-8.7417	0.0350	1.0961	-1.1727		
33	0.02	4.70	-0.0072	-0.0169	1.5702	-8.5904	0.0030	1.0884	1.5167		
34	0.03	5.49	0.0137	-0.0062	1.4394	-8.3789	0.0040	1.0660	-0.5971		
35	0.02	6.33	0.0087	-0.0374	1.2660	-7.9826	0.0	1.0356	-5.5791		
36	0.03	7.10	0.0029	0.0149	1.2634	-7.8230	0.0060	1.0202	5.1517		
37	0.03	7.92	0.0075	-0.0145	1.1157	-7.5821	-0.0040	0.9960	-1.9433		
38	0.03	8.70	0.0078	-0.0079	0.8459	-7.1555	-0.0040	0.9550	-1.0154		
39	0.03	9.53	0.0101	0.0169	0.8160	-6.9706	-0.0040	0.9309	1.6693		
40	0.03	10.33	-0.0277	0.0468	0.6681	-6.6616	-0.0030	0.9033	-3.4939		
41	0.03	11.10	-0.0197	0.1006	0.4528	-6.3292	-0.0100	0.8531	-5.1056		
42	0.03	11.88	-0.0199	0.1334	0.2828	-6.0671	-0.0120	0.8164	-7.0614		
43	0.03	12.71	-0.0231	0.0813	0.1874	-5.7642	-0.0250	0.7774	-3.5212		
44	0.04	13.42	0.0090	0.1264	0.0047	-5.5469	-0.0240	0.7381	14.0444		
45	0.03	14.24	-0.0176	0.1186	-0.0783	-5.8057	-0.0310	0.7044	-6.7404		
46	0.04	14.96	-0.0090	0.1386	-0.3634	-4.9627	-0.0350	0.6591	-15.4000		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MANTIN MISSILE TAILS EFFECTS DATA

TEST PART NAME RX10-6 PMI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 69 1.10 1.7 0.0 H240F13 0.0 30 0 30 0 FIXED

POINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CAF	XCP
47	0.03	15.76	-0.0251	0.1461	-0.4743	-4.7032	-0.0280	0.6273	-5.8223
48	0.04	16.51	-0.0127	0.1814	-0.7034	-4.3625	-0.0250	0.5732	-14.3134
49	0.04	17.32	0.0077	0.0972	-1.0571	-4.0434	-0.0340	0.5222	12.6260
50	0.03	18.15	0.0119	0.0183	-1.0910	-3.8450	-0.0440	0.4911	1.5412
51	0.04	18.95	0.0152	0.1027	-1.4101	-3.5971	-0.0340	0.4355	6.7579
52	0.04	19.73	-0.0445	0.3259	-1.6456	-3.4484	-0.0210	0.3980	-3.6425
53	0.04	20.09	-0.0698	0.3657	-1.7046	-3.3918	-0.0190	0.3876	-5.2395

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST POINT EACH RX10-6												
6 49 1.10 1.7			PH1 CONF		L		DEL1	DEL2	DEL3	DEL4	TRANSITION	
			0.0 0.2W0F13		0.0		30	0	30	0	FIXED	
POINT	ALPHA	BETA	CONF1	CH1	CH1	XCPF1	YCPF1	CONF2	CH2	CH2	XCPF2	YCPF2
1	0.02	-19.85	1.6039	-0.0387	0.6485	-0.0242	0.4043	0.0457	0.0017	0.0121	0.0361	0.2654
2	0.02	-19.44	1.5927	-0.0389	0.6477	-0.0244	0.4067	0.0477	0.0041	0.0078	0.0950	0.1634
3	0.02	-18.90	1.5936	-0.0376	0.6411	-0.0236	0.4023	0.0380	0.0015	0.0009	0.0395	0.0227
4	0.01	-17.92	1.5820	-0.0366	0.6431	-0.0232	0.4065	0.0410	0.0042	0.0014	0.1025	0.0820
5	0.03	-17.04	1.5638	-0.0349	0.6348	-0.0223	0.4060	0.0274	0.0035	-0.0039	0.1287	-0.1417
6	0.03	-16.32	1.5609	-0.0336	0.6384	-0.0215	0.4067	0.0186	-0.0017	-0.0076	-0.0928	-0.4087
7	0.02	-15.58	1.5521	-0.0321	0.6279	-0.0207	0.4045	0.0186	0.0013	-0.0088	0.0646	-0.4732
8	0.02	-14.71	1.5339	-0.0310	0.6247	-0.0202	0.4072	0.0114	0.0003	-0.0156	0.0263	-1.3685
9	0.02	-13.88	1.5280	-0.0296	0.6232	-0.0194	0.4079	0.0154	0.0026	-0.0120	0.1657	-0.7772
10	0.02	-13.08	1.5156	-0.0245	0.6192	-0.0188	0.4085	0.0066	0.0017	-0.0172	0.2615	-2.6062
11	0.02	-12.31	1.5156	-0.0273	0.6211	-0.0180	0.4095	0.0076	0.0011	-0.0158	0.1382	-2.0747
12	0.02	-11.56	1.4959	-0.0255	0.6146	-0.0171	0.4109	0.0020	0.0017	-0.0193	0.8630	-9.6668
13	0.03	-10.78	1.5102	-0.0242	0.6202	-0.0160	0.4107	0.0028	-0.0012	-0.0162	-0.4788	-5.7739
14	0.02	-10.08	1.5161	-0.0232	0.6207	-0.0153	0.4094	0.0003	0.0022	-0.0232	7.2545	-77.3334
15	0.02	-9.31	1.5125	-0.0230	0.6294	-0.0150	0.4107	0.0049	-0.0007	-0.0175	-0.0479	-2.5364
16	0.02	-8.52	1.5453	-0.0235	0.6418	-0.0152	0.4153	0.0018	-0.0015	-0.0170	-0.8339	-9.4446
17	0.02	-7.77	1.5428	-0.0222	0.6426	-0.0144	0.4165	-0.0123	0.0	-0.0280	0.0	2.2763
18	0.02	-6.95	1.5269	-0.0206	0.6348	-0.0135	0.4157	-0.0028	-0.0011	-0.0192	0.4020	6.8649
19	0.02	-6.18	1.5246	-0.0185	0.6320	-0.0121	0.4145	-0.0122	-0.0008	-0.0229	0.0615	1.8742
20	0.03	-5.39	1.5280	-0.0165	0.6311	-0.0108	0.4130	-0.0091	-0.0008	-0.0195	0.0907	2.1464
21	0.03	-4.63	1.5072	-0.0157	0.6266	-0.0104	0.4157	-0.0092	-0.0005	-0.0193	0.0571	2.0941
22	0.02	-3.84	1.4925	-0.0143	0.6206	-0.0096	0.4158	-0.0195	-0.0008	-0.0243	0.0385	1.2460
23	0.02	-3.05	1.4476	-0.0146	0.6182	-0.0098	0.4155	-0.0079	-0.0004	-0.0196	0.0475	2.4851
24	0.03	-2.22	1.4562	-0.0133	0.6133	-0.0091	0.4212	-0.0035	0.0007	-0.0146	0.1930	-4.1811
25	0.02	-1.44	1.4258	-0.0126	0.6034	-0.0088	0.4232	-0.0103	-0.0007	-0.0204	0.0146	1.9837
26	0.02	-0.63	1.3846	-0.0113	0.5880	-0.0082	0.4247	0.0064	0.0009	-0.0163	0.1407	-2.5418
27	0.02	0.19	1.3475	-0.0107	0.5753	-0.0079	0.4269	0.0064	0.0009	-0.0143	1.0006	-15.8890
28	0.03	0.87	1.3143	-0.0080	0.5599	-0.0061	0.4247	-0.0094	-0.0007	-0.0215	0.0682	2.1716
29	0.02	1.62	1.2901	-0.0067	0.5519	-0.0052	0.4259	0.0076	0.0004	-0.0161	0.1443	-6.2057
30	0.03	2.44	1.2719	-0.0035	0.5360	-0.0028	0.4214	-0.0020	0.0	-0.0178	0.0	8.8832
31	0.02	3.15	1.2441	-0.0026	0.5216	0.0021	0.4146	-0.0134	-0.0012	-0.0227	0.0896	1.6914
32	0.03	3.92	1.2440	-0.0029	0.5376	-0.0024	0.4321	-0.0088	-0.0012	-0.0207	0.1364	2.3559
33	0.02	4.70	1.2030	-0.0017	0.5198	-0.0014	0.4321	-0.0117	-0.0014	-0.0245	0.1219	2.0939
34	0.03	5.49	1.1534	0.0005	0.4958	0.0004	0.4298	-0.0029	-0.0005	-0.0191	0.1811	6.5746
35	0.02	6.33	1.0952	0.0039	0.4714	0.0036	0.4101	0.0073	-0.0008	-0.0196	-0.3263	-8.5363
36	0.03	7.10	1.0526	0.0045	0.4582	0.0043	0.4153	-0.0069	-0.0012	-0.0232	0.1740	3.3622
37	0.03	7.92	1.0043	0.0045	0.4382	0.0045	0.4367	0.0023	-0.0007	-0.0196	-0.2937	-8.5363
38	0.03	8.70	0.9457	0.0064	0.4164	0.0067	0.4403	-0.0002	-0.0009	-0.0197	4.5028	98.3332
39	0.03	9.53	0.8942	0.0072	0.3955	0.0081	0.4423	0.0022	-0.0004	-0.0192	-0.4093	-8.7122
40	0.03	10.33	0.8439	0.0083	0.3735	0.0098	0.4427	-0.0040	-0.0018	-0.0245	0.4503	6.1332
41	0.03	11.10	0.7818	0.0087	0.3460	0.0111	0.4425	0.0026	-0.0008	-0.0206	-0.2886	-7.9360
42	0.03	11.86	0.7298	0.0092	0.3239	0.0127	0.4439	0.0023	-0.0015	-0.0193	-0.6526	-8.4059
43	0.03	12.71	0.6715	0.0086	0.2966	0.0129	0.4417	0.0036	-0.0013	-0.0195	-0.3544	-5.4168
44	0.04	13.42	0.6180	0.0080	0.2759	0.0130	0.4464	0.0064	-0.0015	-0.0203	-0.2345	-3.1668
45	0.03	14.24	0.5565	0.0069	0.2486	0.0124	0.4467	0.0017	-0.0020	-0.0216	-1.1919	-12.7256
46	0.04	14.96	0.4995	0.0055	0.2203	0.0110	0.4410	0.0125	-0.0014	-0.0149	-0.1081	-1.1148

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH HX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 69 1.10 1.7			0.0	82x0.13	0.0	30	0	30	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CH3	XCPF2	YCPF2
47	0.03	15.76	0.4346	0.0030	0.1958	0.0069	0.4504	0.0107	-0.0014	-0.0171	-0.1333	-1.6014
48	0.04	16.51	0.3679	-0.0003	0.1699	-0.0008	0.4619	0.0036	-0.0020	-0.0189	-0.5629	-5.7501
49	0.04	17.32	0.2994	-0.0032	0.1430	-0.0105	0.4776	0.0085	-0.0026	-0.0181	-0.3002	-2.1256
50	0.03	18.15	0.2536	-0.0059	0.1230	-0.0234	0.4851	0.0216	-0.0015	-0.0095	-0.0695	-0.4399
51	0.04	18.95	0.2023	-0.0092	0.1026	-0.0453	0.5073	0.0140	-0.0008	-0.0151	-0.0590	-1.0811
52	0.04	19.73	0.1449	-0.0129	0.0792	-0.0891	0.5466	-0.0007	-0.0027	-0.0221	3.8595	31.6189
53	0.04	20.09	0.1301	-0.0140	0.0714	-0.1074	0.5486	-0.0145	-0.0029	-0.0281	0.2018	1.9401

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	REX	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6		69	1.10	1.7	0.0	0.2	0.13	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPE3	YCPE3	CNF4	CH4	CH4	XCPE4	YCPE4	
1	0.02	-19.85	1.6241	-0.0260	0.6492	-0.0160	0.3987	-0.0169	-0.0169	-0.0024	0.1675	0.6237	
2	0.02	-19.44	1.6371	-0.0261	0.6507	-0.0159	0.3974	-0.0127	-0.0150	0.0032	0.1463	-0.0313	
3	0.02	-18.90	1.6095	-0.0243	0.6413	-0.0151	0.3984	-0.0126	-0.0155	0.0031	0.1508	-0.0307	
4	0.01	-17.92	1.6198	-0.0229	0.6407	-0.0141	0.3955	-0.0105	-0.0159	0.0017	0.1509	-0.0159	
5	0.03	-17.09	1.5940	-0.0209	0.6304	-0.0131	0.3950	-0.0102	-0.0161	0.0005	0.1528	-0.0046	
6	0.03	-16.32	1.5723	-0.0188	0.6222	-0.0119	0.3957	-0.0888	-0.0149	0.0022	0.1673	-0.0249	
7	0.02	-15.58	1.5692	-0.0176	0.6225	-0.0112	0.3967	-0.0998	-0.0149	0.0053	0.1490	-0.0529	
8	0.02	-14.71	1.5657	-0.0160	0.6147	-0.0102	0.3924	-0.0935	-0.0143	0.0063	0.1527	-0.0672	
9	0.02	-13.88	1.5539	-0.0145	0.6117	-0.0093	0.3937	-0.0928	-0.0146	0.0044	0.1571	-0.0476	
10	0.02	-13.08	1.5376	-0.0124	0.6052	-0.0091	0.3936	-0.0934	-0.0143	0.0063	0.1528	-0.0676	
11	0.02	-12.31	1.5178	-0.0110	0.6000	-0.0073	0.3953	-0.0842	-0.0134	0.0094	0.1586	-0.1122	
12	0.02	-11.56	1.5147	-0.0098	0.6004	-0.0064	0.3964	-0.0895	-0.0149	0.0053	0.1669	-0.0590	
13	0.03	-10.76	1.5004	-0.0081	0.5902	-0.0054	0.3934	-0.0903	-0.0140	0.0077	0.1546	-0.0854	
14	0.02	-10.08	1.5101	-0.0068	0.5908	-0.0045	0.3913	-0.1023	-0.0163	0.0031	0.1593	-0.0308	
15	0.02	-9.31	1.5104	-0.0054	0.5908	-0.0036	0.3912	-0.0931	-0.0144	0.0062	0.1546	-0.0670	
16	0.02	-8.57	1.5070	-0.0044	0.5918	-0.0029	0.3927	-0.0672	-0.0121	0.0080	0.1798	-0.1192	
17	0.02	-7.77	1.5750	-0.0061	0.6182	-0.0039	0.3925	-0.0961	-0.0154	0.0048	0.1603	-0.0501	
18	0.02	-6.95	1.5586	-0.0050	0.6166	-0.0032	0.3961	-0.0680	-0.0116	0.0105	0.1711	-0.1550	
19	0.02	-6.18	1.5683	-0.0043	0.6195	-0.0027	0.3950	-0.0709	-0.0119	0.0091	0.1683	-0.1280	
20	0.03	-5.39	1.5555	-0.0020	0.6203	-0.0013	0.3988	-0.0742	-0.0119	0.0088	0.1608	-0.1183	
21	0.03	-4.63	1.5591	-0.0009	0.6164	-0.0006	0.3953	-0.0674	-0.0113	0.0080	0.1681	-0.1193	
22	0.02	-3.84	1.5649	-0.0010	0.6194	-0.0005	0.3958	-0.0899	-0.0134	0.0058	0.1494	-0.0650	
23	0.02	-3.05	1.5493	-0.0011	0.6181	-0.0007	0.3990	-0.0741	-0.0119	0.0088	0.1610	-0.1189	
24	0.03	-2.22	1.5279	0.0005	0.6062	0.0003	0.3987	-0.0681	-0.0105	0.0105	0.1543	-0.1543	
25	0.02	-1.48	1.5107	0.0011	0.6080	0.0007	0.4024	-0.0680	-0.0107	0.0104	0.1567	-0.1535	
26	0.02	-0.63	1.4824	0.0035	0.5931	0.0023	0.4000	-0.0555	-0.0097	0.0132	0.1744	-0.2380	
27	0.02	0.10	1.4316	0.0050	0.5767	0.0035	0.4028	-0.0549	-0.0097	0.0136	0.1644	-0.2305	
28	0.03	0.87	1.3966	0.0064	0.5619	0.0046	0.4024	-0.0682	-0.0101	0.0111	0.1475	-0.1624	
29	0.02	1.62	1.3740	0.0091	0.5496	0.0066	0.4000	-0.0589	-0.0096	0.0136	0.1631	-0.2305	
30	0.03	2.44	1.3431	0.0101	0.5407	0.0075	0.4026	-0.0657	-0.0097	0.0138	0.1474	-0.2102	
31	0.02	3.15	1.2977	0.0143	0.5235	0.0111	0.4034	-0.0642	-0.0099	0.0111	0.1453	-0.1624	
32	0.03	3.92	1.2800	0.0185	0.5156	0.0144	0.4078	-0.0680	-0.0105	0.0104	0.1545	-0.1535	
33	0.02	4.70	1.2747	0.0117	0.5329	0.0092	0.4181	-0.0674	-0.0110	0.0085	0.1637	-0.1267	
34	0.03	5.49	1.2339	0.0139	0.5099	0.0113	0.4133	-0.0654	-0.0116	0.0138	0.1779	-0.2111	
35	0.02	6.33	1.1835	0.0164	0.4853	0.0138	0.4101	-0.0686	-0.0126	0.0135	0.1838	-0.1974	
36	0.03	7.10	1.1336	0.0174	0.4685	0.0152	0.4134	-0.0713	-0.0129	0.0115	0.1810	-0.1619	
37	0.03	7.92	1.0941	0.0167	0.4570	0.0153	0.4177	-0.0683	-0.0129	0.0129	0.1890	-0.1495	
38	0.03	8.70	1.0544	0.0193	0.4299	0.0183	0.4074	-0.0582	-0.0149	0.0145	0.2386	-0.2321	
39	0.03	9.53	0.9941	0.0203	0.4074	0.0205	0.4102	-0.0674	-0.0155	0.0129	0.2291	-0.1904	
40	0.03	10.33	0.9569	0.0218	0.3836	0.0228	0.4009	-0.0831	-0.0159	0.0075	0.1915	-0.0904	
41	0.03	11.10	0.8936	0.0218	0.3607	0.0244	0.4031	-0.0831	-0.0167	0.0075	0.2014	-0.0904	
42	0.03	11.88	0.8388	0.0218	0.3417	0.0260	0.4074	-0.0831	-0.0167	0.0075	0.2014	-0.0904	
43	0.03	12.71	0.7496	0.0221	0.3189	0.0280	0.4039	-0.0927	-0.0186	0.0063	0.2010	-0.0885	
44	0.04	13.42	0.7223	0.0223	0.2930	0.0309	0.4057	-0.0976	-0.0191	-0.0003	0.1963	0.0030	
45	0.03	14.24	0.6668	0.0210	0.2691	0.0315	0.4036	-0.1029	-0.0194	-0.0057	0.1883	0.0550	
46	0.04	14.96	0.6038	0.0197	0.2470	0.0327	0.4091	-0.1001	-0.0200	-0.0030	0.2004	0.0302	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	REF	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		69	1.10	1.7	0.0	B2W0F13	0.0	30	0	30	0	FIXED
POINT	ALPHA	HETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CH4	CM4	XCPF4	YCPF4
47	0.03	15.76	0.5439	0.0176	0.2185	0.0324	0.4016	-0.1034	-0.0220	-0.0020	0.2129	0.0196
48	0.04	16.51	0.5015	0.0146	0.1917	0.0290	0.3823	-0.1068	-0.0215	-0.0022	0.2012	0.0202
49	0.04	17.32	0.4348	0.0117	0.1668	0.0268	0.3618	-0.1057	-0.0216	-0.0045	0.2047	0.0614
50	0.03	18.15	0.3934	0.0092	0.1444	0.0233	0.3670	-0.1018	-0.0222	-0.0082	0.2184	0.0405
51	0.04	18.95	0.3264	0.0049	0.1174	0.0150	0.3596	-0.1106	-0.0261	-0.0106	0.2357	0.0961
52	0.04	19.73	0.2703	0.0009	0.0946	0.0033	0.3499	-0.1087	-0.0258	-0.0055	0.2370	0.0505
53	0.04	20.09	0.2606	0.0	0.0883	0.0	0.3386	-0.1116	-0.0264	-0.0070	0.2362	0.0624

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		71	0.97	1.7	0.0	B2HOF12	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
1	0.01	-19.82	0.2313	-0.7757	4.4934	-10.5532	-0.0150	1.0683	-3.3542			
2	0.01	-19.48	0.1285	-0.5058	4.7272	-11.1385	-0.0200	1.0383	-3.9370			
3	0.02	-18.80	0.1401	-0.4621	4.6849	-11.4252	-0.0220	1.0666	-3.2986			
4	0.03	-17.82	0.1718	-0.3465	4.3840	-11.0710	-0.0190	1.0839	-2.0170			
5	0.03	-17.10	0.1527	-0.3687	4.0845	-11.0586	-0.0110	1.1417	-2.4151			
6	0.03	-16.13	0.1062	-0.2746	4.2364	-11.1033	-0.0020	1.1016	-2.5864			
7	0.01	-15.49	-0.0252	-0.2037	4.0050	-11.4922	-0.0120	1.1030	8.0841			
8	0.04	-14.65	0.1811	-0.2485	3.8231	-10.9096	-0.0010	1.0758	-1.6485			
9	0.02	-13.80	0.0690	-0.2256	3.8075	-10.7188	-0.0050	1.0698	-3.2696			
10	0.02	-12.91	0.0419	-0.2016	3.7175	-10.6598	-0.0030	1.0614	-4.8129			
11	0.03	-12.21	0.0960	-0.2504	3.2182	-10.4357	0.0080	1.0943	-2.6083			
12	0.03	-11.36	0.0796	-0.2074	3.5733	-10.5009	0.0030	1.0507	-2.8060			
13	0.03	-10.65	0.1494	-0.3591	3.2921	-10.0512	0.0070	1.0243	-2.4040			
14	0.02	-9.89	0.0382	-0.2175	3.0957	-10.1142	0.0070	1.0557	-5.6432			
15	0.02	-9.12	0.0584	-0.2467	3.0998	-9.9650	0.0120	1.0249	-4.2253			
16	0.01	-8.44	0.0221	-0.2359	2.8740	-9.7399	0.0140	1.0136	-10.6760			
17	0.02	-7.58	0.0434	-0.2007	2.8545	-9.7526	0.0120	1.0097	-4.6258			
18	0.01	-6.69	0.0074	-0.2313	2.7576	-9.3390	0.0190	0.9738	-31.2649			
19	0.02	-5.94	0.0480	-0.2312	2.7873	-9.3955	0.0140	0.9679	-4.8167			
20	0.02	-5.24	0.0629	-0.2690	2.4715	-9.2263	0.0280	0.9706	-4.2776			
21	0.02	-4.45	0.0454	-0.2145	2.4337	-9.1934	0.0170	0.9603	-4.7260			
22	0.02	-3.69	0.0610	-0.2674	2.4486	-9.3332	0.0250	0.9535	-4.3836			
23	0.02	-2.83	0.1076	-0.3746	2.3943	-9.5242	0.0330	0.9543	-3.4818			
24	0.02	-2.09	0.0439	-0.2164	2.4677	-9.8139	0.0270	0.9528	-4.9307			
25	0.02	-1.30	-0.0026	-0.1253	2.3104	-10.0897	0.0280	0.9579	48.2153			
26	0.02	-0.49	0.0499	-0.2528	2.3850	-10.0701	0.0130	0.9339	-5.0673			
27	0.01	0.27	0.0412	-0.2566	2.3852	-10.1164	0.0150	0.9566	-6.2301			
28	0.02	1.00	0.0703	-0.2704	2.1692	-9.8710	0.0240	0.9380	-3.8467			
29	0.02	1.73	0.0238	-0.1703	2.1464	-9.7891	0.0120	0.9323	-7.1563			
30	0.02	2.53	0.0645	-0.2583	2.0337	-9.5483	0.0060	0.9261	-4.0047			
31	0.02	3.26	0.0572	-0.2261	1.8683	-9.3037	0.0120	0.9079	-3.9524			
32	0.02	4.05	0.0499	-0.2348	1.7950	-9.0281	0.0040	0.8951	-4.7066			
33	0.02	4.84	0.0402	-0.1503	1.6251	-8.6763	0.0100	0.8637	-3.7383			
34	0.02	5.65	0.0329	-0.1960	1.4581	-8.3475	0.0060	0.8336	-5.9593			
35	0.02	6.44	0.0655	-0.2517	1.3853	-8.0686	0.0030	0.8010	-3.8427			
36	0.02	7.25	0.0608	-0.2591	1.2550	-7.8223	0.0040	0.7599	-4.2618			
37	0.02	8.02	0.0487	-0.1712	0.9795	-7.4385	0.0080	0.7126	-3.5150			
38	0.02	8.88	0.0525	-0.2065	1.0465	-7.2673	0.0050	0.6883	-3.9333			
39	0.02	9.64	0.0398	-0.1577	0.8072	-6.8533	0.0060	0.6366	-3.9628			
40	0.02	10.47	0.0534	-0.1747	0.6547	-6.5669	-0.0030	0.5946	-3.2727			
41	0.02	11.24	0.0231	-0.1203	0.4557	-6.3003	0.0030	0.5522	-5.2095			
42	0.03	12.06	0.0716	-0.2282	0.4325	-6.0189	-0.0050	0.5239	-3.1877			
43	0.02	12.80	0.0253	-0.0844	0.1592	-5.6611	0.0010	0.4831	-3.3368			
44	0.02	13.54	0.0169	-0.0747	0.1195	-5.4466	-0.0090	0.4512	-4.4177			
45	0.02	14.33	0.0301	-0.1921	-0.2266	-4.9291	-0.0130	0.4125	-4.3900			
46	0.04	15.08	0.1157	-0.1320	-0.0562	-5.0337	-0.0190	0.3973	-1.1407			

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6	71	0.97	1.7	0.0	B2WUF12	D.0	30	0	30	0
										FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	0.03	15.88	0.0477	-0.1248	-0.4266	-4.4970	-0.0260	0.3191	-2.6159	
48	0.01	16.65	-0.0430	-0.1448	-0.7538	-3.9900	-0.0150	0.2620	3.3674	
49	0.03	17.49	0.0602	-0.0583	-0.7796	-3.8879	-0.0210	0.2415	-0.9681	
50	0.03	18.32	0.0322	-0.0331	-0.8736	-3.7753	-0.0150	0.2348	-1.0273	
51	0.03	19.12	0.0132	-0.0515	-1.3004	-3.2157	-0.0050	0.1431	-3.9000	
52	0.04	19.93	0.0136	0.1109	-1.2711	-3.3127	-0.0120	0.1474	8.7471	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION		
6 71 U.97 1.7			0.0	B2WUF12	0.0	30	0	30	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	-19.82	1.4637	-0.0098	0.4589	-0.0067	0.3135	0.1141	-0.0033	0.0312	-0.0289	0.2736
2	0.01	-19.48	1.4551	-0.0083	0.4597	-0.0057	0.3159	0.0838	-0.0058	0.0307	-0.0698	0.3666
3	0.02	-18.80	1.4406	-0.0101	0.4566	-0.0070	0.3170	0.0475	-0.0005	0.0072	-0.0116	0.1522
4	0.03	-17.82	1.4263	-0.0100	0.4498	-0.0070	0.3153	0.0326	0.0022	0.0030	0.0675	0.0909
5	0.03	-17.10	1.4292	-0.0106	0.4552	-0.0074	0.3185	0.0328	0.0023	0.0019	0.0701	0.0588
6	0.03	-16.13	1.4021	-0.0092	0.4477	-0.0066	0.3193	0.0189	-0.0000	-0.0031	-0.0026	-0.1641
7	0.01	-15.49	1.3855	-0.0091	0.4446	-0.0066	0.3209	0.0303	0.0023	0.0005	0.0775	0.0164
8	0.04	-14.65	1.3642	-0.0076	0.4370	-0.0056	0.3203	0.0176	0.0011	-0.0045	0.0625	-0.2577
9	0.02	-13.80	1.3559	-0.0074	0.4332	-0.0055	0.3195	0.0208	0.0036	-0.0077	0.1730	-0.3687
10	0.02	-12.91	1.3144	-0.0068	0.4217	-0.0052	0.3208	0.0129	0.0046	-0.0101	0.3565	-0.7831
11	0.03	-12.21	1.3318	-0.0072	0.4282	-0.0054	0.3215	0.0166	0.0011	-0.0062	0.0693	-0.3716
12	0.03	-11.36	1.2937	-0.0058	0.4151	-0.0045	0.3208	0.0087	0.0006	-0.0078	0.0747	-0.8967
13	0.03	-10.65	1.2656	-0.0057	0.4104	-0.0045	0.3243	0.0109	0.0027	-0.0067	0.2477	-0.6117
14	0.02	-9.89	1.2536	-0.0051	0.4072	-0.0041	0.3248	0.0098	0.0008	-0.0068	0.0816	-0.6974
15	0.02	-9.12	1.2395	-0.0050	0.4042	-0.0040	0.3261	0.0075	0.0013	-0.0090	0.1800	-1.2001
16	0.01	-8.44	1.2076	-0.0040	0.3944	-0.0033	0.3266	0.0070	0.0009	-0.0066	0.1285	-0.9382
17	0.02	-7.58	1.2029	-0.0043	0.3946	-0.0036	0.3281	0.0031	0.0011	-0.0076	0.3709	-2.4410
18	0.01	-6.69	1.1703	-0.0031	0.3824	-0.0027	0.3267	0.0098	0.0008	-0.0068	0.0816	-0.6974
19	0.02	-5.94	1.1618	-0.0034	0.3815	-0.0029	0.3284	0.0043	0.0007	-0.0066	0.1628	-1.5273
20	0.02	-5.24	1.1632	-0.0039	0.3857	-0.0034	0.3316	0.0060	0.0014	-0.0083	0.2333	-1.3835
21	0.02	-4.45	1.1520	-0.0031	0.3790	-0.0027	0.3290	0.0074	0.0012	-0.0083	0.1621	-1.1262
22	0.02	-3.69	1.1802	-0.0017	0.3923	-0.0014	0.3324	0.0181	-0.0002	-0.0002	-0.0110	-0.0093
23	0.02	-2.83	1.2624	0.0008	0.4285	0.0006	0.3395	0.0350	-0.0017	0.0056	-0.0486	0.1589
24	0.02	-2.09	1.2538	0.0015	0.4248	0.0012	0.3388	0.0125	-0.0008	-0.0053	-0.0680	-0.4268
25	0.02	-1.30	1.2782	-0.0063	0.4511	-0.0050	0.3529	-0.0037	0.0008	-0.0137	-0.2297	3.7116
26	0.02	-0.49	1.2505	-0.0114	0.4491	-0.0091	0.3591	0.0111	0.0005	-0.0061	0.0495	-0.5497
27	0.01	0.27	1.2319	-0.0217	0.4551	-0.0176	0.3694	0.0071	0.0005	-0.0066	0.0704	-0.9344
28	0.02	1.00	1.2104	-0.0304	0.4617	-0.0251	0.3815	0.0072	0.0009	-0.0075	0.1250	-1.0418
29	0.02	1.73	1.1837	-0.0333	0.4583	-0.0281	0.3872	0.0039	0.0010	-0.0111	0.2564	-2.8463
30	0.02	2.53	1.1510	-0.0367	0.4526	-0.0319	0.3932	0.0121	0.0008	-0.0050	0.0661	-0.4106
31	0.02	3.26	1.1069	-0.0369	0.4424	-0.0334	0.3997	0.0086	0.0009	-0.0077	0.1046	-0.8993
32	0.02	4.05	1.0603	-0.0368	0.4292	-0.0347	0.4048	0.0087	0.0004	-0.0078	0.0517	-0.8967
33	0.02	4.84	1.0105	-0.0368	0.4127	-0.0364	0.4084	-0.0010	0.0009	-0.0132	-0.9498	13.2332
34	0.02	5.65	0.9674	-0.0364	0.3999	-0.0377	0.4134	0.0073	0.0004	-0.0077	0.0616	-1.0503
35	0.02	6.44	0.9136	-0.0370	0.3864	-0.0405	0.4229	0.0158	0.0002	-0.0029	0.0158	-0.1858
36	0.02	7.25	0.8611	-0.0369	0.3718	-0.0428	0.4318	0.0133	0.0007	-0.0044	0.0564	-0.3284
37	0.02	8.02	0.8063	-0.0370	0.3549	-0.0459	0.4402	0.0114	0.0001	-0.0074	0.0132	-0.6492
38	0.02	8.88	0.7621	-0.0366	0.3438	-0.0480	0.4512	0.0207	0.0002	-0.0058	0.0121	-0.2803
39	0.02	9.64	0.7185	-0.0362	0.3296	-0.0504	0.4587	0.0090	0.0005	-0.0089	0.0611	-0.9890
40	0.02	10.47	0.6544	-0.0361	0.3092	-0.0552	0.4726	0.0165	0.0005	-0.0055	0.0303	-0.3335
41	0.02	11.24	0.6062	-0.0353	0.2896	-0.0583	0.4777	0.0166	0.0001	-0.0056	0.0060	-0.3355
42	0.03	12.06	0.5629	-0.0351	0.2777	-0.0623	0.4934	0.0363	-0.0000	-0.0004	-0.0014	-0.0111
43	0.02	12.80	0.5024	-0.0343	0.2586	-0.0683	0.5135	0.0160	0.0002	-0.0088	0.0156	-0.5480
44	0.02	13.54	0.4576	-0.0337	0.2424	-0.0736	0.5296	0.0156	-0.0000	-0.0068	-0.0032	-0.4360
45	0.02	14.33	0.4022	-0.0327	0.2219	-0.0813	0.5517	0.0302	-0.0003	-0.0034	-0.0099	-0.1138
46	0.04	15.08	0.3557	-0.0316	0.2040	-0.0889	0.5735	0.0273	0.0000	-0.0031	0.0018	-0.1137

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 71 0.97 1.7 0.0 B2WOF12 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.03	15.88	0.2950	-0.0302	0.1786	-0.1023	0.6053	0.0312	0.0000	-0.0015	0.0016	-0.0482
48	0.01	16.65	0.2543	-0.0276	0.1613	-0.1085	0.6344	0.0246	-0.0002	-0.0031	-0.0102	-0.1261
49	0.03	17.49	0.2053	-0.0267	0.1413	-0.1303	0.6883	0.0250	-0.0002	-0.0049	-0.0100	-0.1948
50	0.03	18.32	0.1689	-0.0257	0.1254	-0.1524	0.7423	0.0289	-0.0004	-0.0031	-0.0138	-0.1062
51	0.03	19.12	0.1174	-0.0245	0.1031	-0.2087	0.8784	0.0184	-0.0003	-0.0060	-0.0163	-0.3244
52	0.04	19.93	0.1016	-0.0248	0.0956	-0.2445	0.9415	0.0425	-0.0004	-0.0001	-0.0106	-0.0033

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART NACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 71 0.97 1.7				0.0	B2WOF12	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	-19.82	1.5205	0.0021	0.4247	0.0014	0.2793	-0.0529	-0.0041	0.0089	0.0764	-0.1677
2	0.01	-19.48	1.5142	0.0014	0.4227	0.0010	0.2791	-0.0741	-0.0042	0.0054	0.0567	-0.0730
3	0.02	-18.80	1.5927	0.0027	0.4437	0.0017	0.2786	-0.0552	-0.0042	0.0038	0.0761	-0.0690
4	0.03	-17.82	1.5927	0.0051	0.4408	0.0032	0.2768	-0.0446	-0.0045	0.0059	0.1020	-0.1332
5	0.03	-17.10	1.5893	0.0034	0.4408	0.0021	0.2774	-0.0521	-0.0042	0.0061	0.0816	-0.1178
6	0.03	-16.13	1.5635	0.0037	0.4347	0.0024	0.2780	-0.0447	-0.0041	0.0059	0.0928	-0.1321
7	0.01	-15.49	1.5375	0.0039	0.4318	0.0025	0.2809	-0.0669	-0.0046	0.0072	0.0687	-0.1077
8	0.04	-14.65	1.5327	0.0041	0.4228	0.0027	0.2759	-0.0492	-0.0037	0.0091	0.0762	-0.1851
9	0.02	-13.80	1.5183	0.0044	0.4255	0.0029	0.2803	-0.0459	-0.0036	0.0106	0.0795	-0.2311
10	0.02	-12.91	1.5032	0.0053	0.4154	0.0036	0.2763	-0.0444	-0.0041	0.0059	0.0935	-0.1330
11	0.03	-12.21	1.4800	0.0042	0.4123	0.0029	0.2766	-0.0524	-0.0041	0.0087	0.0792	-0.1668
12	0.03	-11.36	1.4361	0.0042	0.4052	0.0029	0.2821	-0.0387	-0.0035	0.0117	0.0904	-0.3024
13	0.03	-10.65	1.4059	0.0058	0.3915	0.0042	0.2785	-0.0421	-0.0041	0.0115	0.0974	-0.2725
14	0.02	-9.89	1.4018	0.0046	0.3515	0.0033	0.2796	-0.0306	-0.0035	0.0088	0.1144	-0.2877
15	0.02	-9.12	1.3941	0.0054	0.3868	0.0039	0.2774	-0.0385	-0.0035	0.0111	0.0909	-0.2876
16	0.01	-8.44	1.3650	0.0057	0.3826	0.0042	0.2803	-0.0280	-0.0031	0.0130	0.1107	-0.4632
17	0.02	-7.58	1.3518	0.0057	0.3775	0.0043	0.2793	-0.0391	-0.0035	0.0137	0.0895	-0.3496
18	0.01	-6.69	1.3011	0.0070	0.3610	0.0054	0.2775	-0.0386	-0.0033	0.0116	0.0855	-0.3015
19	0.02	-5.94	1.2996	0.0068	0.3597	0.0052	0.2768	-0.0423	-0.0039	0.0121	0.0922	-0.2862
20	0.02	-5.24	1.2960	0.0071	0.3610	0.0055	0.2786	-0.0423	-0.0036	0.0121	0.0851	-0.2862
21	0.02	-4.45	1.2881	0.0075	0.3631	0.0058	0.2819	-0.0430	-0.0035	0.0148	0.0814	-0.3435
22	0.02	-3.69	1.2928	0.0080	0.3597	0.0062	0.2782	-0.0324	-0.0033	0.0161	0.1034	-0.4970
23	0.02	-2.83	1.2945	0.0100	0.3623	0.0078	0.2799	-0.0393	-0.0033	0.0144	0.0840	-0.3665
24	0.02	-2.09	1.3580	0.0134	0.3887	0.0099	0.2862	-0.0393	-0.0035	0.0144	0.0840	-0.3665
25	0.02	-1.30	1.4045	0.0100	0.4123	0.0072	0.2936	-0.0462	-0.0036	0.0126	0.0779	-0.2728
26	0.02	-0.49	1.4192	0.0053	0.4240	0.0037	0.3023	-0.0437	-0.0035	0.0174	0.0812	-0.3591
27	0.01	0.27	1.3994	-0.0043	0.4376	-0.0031	0.3127	-0.0369	-0.0036	0.0199	0.0989	-0.5394
28	0.02	1.00	1.3882	-0.0107	0.4335	-0.0077	0.3123	-0.0293	-0.0042	0.0196	0.1433	-0.6702
29	0.02	1.73	1.3756	-0.0207	0.4454	-0.0151	0.3238	-0.0438	-0.0041	0.0188	0.0947	-0.4293
30	0.02	2.53	1.3550	-0.0229	0.4397	-0.0169	0.3245	-0.0293	-0.0042	0.0196	0.1433	-0.6702
31	0.02	3.26	1.3011	-0.0254	0.4321	-0.0195	0.3321	-0.0399	-0.0042	0.0183	0.1065	-0.4588
32	0.02	4.05	1.2666	-0.0266	0.4224	-0.0210	0.3335	-0.0404	-0.0042	0.0203	0.1052	-0.5034
33	0.02	4.84	1.2179	-0.0275	0.4079	-0.0226	0.3349	-0.0437	-0.0041	0.0187	0.0949	-0.4288
34	0.02	5.65	1.1756	-0.0272	0.3953	-0.0232	0.3363	-0.0442	-0.0045	0.0214	0.1029	-0.4835
35	0.02	6.44	1.1176	-0.0273	0.3791	-0.0244	0.3392	-0.0407	-0.0053	0.0229	0.1302	-0.5636
36	0.02	7.25	1.0750	-0.0281	0.3665	-0.0261	0.3409	-0.0451	-0.0050	0.0254	0.1108	-0.5626
37	0.02	8.02	1.0207	-0.0287	0.3475	-0.0282	0.3405	-0.0486	-0.0057	0.0252	0.1173	-0.5186
38	0.02	8.88	0.9802	-0.0280	0.3362	-0.0286	0.3430	-0.0524	-0.0064	0.0263	0.1231	-0.5027
39	0.02	9.64	0.9385	-0.0285	0.3206	-0.0304	0.3416	-0.0742	-0.0063	0.0244	0.0856	-0.3285
40	0.02	10.47	0.8738	-0.0282	0.3011	-0.0323	0.3445	-0.0732	-0.0076	0.0210	0.1045	-0.2870
41	0.02	11.24	0.8124	-0.0278	0.2860	-0.0343	0.3520	-0.0706	-0.0101	0.0280	0.1457	-0.3962
42	0.03	12.06	0.7808	-0.0267	0.2675	-0.0342	0.3426	-0.0733	-0.0111	0.0245	0.1521	-0.3339
43	0.02	12.80	0.7144	-0.0274	0.2509	-0.0383	0.3513	-0.0738	-0.0098	0.0245	0.1334	-0.3321
44	0.02	13.54	0.6671	-0.0267	0.2364	-0.0400	0.3543	-0.0796	-0.0083	0.0167	0.1043	-0.2095
45	0.02	14.33	0.6181	-0.0251	0.2160	-0.0406	0.3494	-0.0761	-0.0101	0.0189	0.1334	-0.2489
46	0.04	15.08	0.5590	-0.0241	0.1959	-0.0431	0.3504	-0.0830	-0.0083	0.0150	0.1006	-0.1812

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI CNF		L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 71 0.97 1.7			0.0 0.2WOF12		0.0	30	0	30	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.03	15.88	0.5036	-0.0226	0.1749	-0.0449	0.3473	-0.0897	-0.0054	0.0099	0.0607	-0.1105
48	0.01	16.65	0.4612	-0.0221	0.1560	-0.0479	0.3382	-0.0793	-0.0022	0.0092	0.0284	-0.1157
49	0.03	17.49	0.4045	-0.0210	0.1371	-0.0519	0.3389	-0.0827	-0.0047	0.0103	0.0568	-0.1251
50	0.03	18.32	0.3661	-0.0206	0.1186	-0.0564	0.3239	-0.0757	-0.0029	0.0095	0.0390	-0.1252
51	0.03	19.12	0.3316	-0.0198	0.0996	-0.0598	0.3004	-0.0739	0.0007	0.0119	-0.0101	-0.1607
52	0.04	19.93	0.2750	-0.0185	0.0815	-0.0674	0.2961	-0.1058	-0.0084	0.0151	0.0794	-0.1432

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	72	1.01	1.7	0.0	82WOF12	0.0	30	0	30	0
										FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	0.02	-19.91	0.0697	-0.3215	4.9703	-11.6527	-0.0100	1.1602	-4.6138
2	0.02	-19.52	0.1077	-0.4117	4.9505	-11.6360	-0.0120	1.1614	-3.8234
3	0.01	-18.73	0.1004	-0.4585	4.7326	-11.5740	-0.0240	1.1629	-4.5673
4	0.02	-17.89	0.1279	-0.4140	4.5907	-11.5883	-0.0140	1.1671	-3.2374
5	0.02	-17.02	0.1225	-0.3814	4.4522	-11.5524	-0.0120	1.1574	-3.1143
6	0.02	-16.25	0.0905	-0.3836	4.3035	-11.4538	-0.0180	1.1528	-4.2398
7	0.02	-15.41	0.0926	-0.3516	4.1722	-11.3503	-0.0050	1.1511	-3.7974
8	0.02	-14.63	0.0826	-0.2986	4.0257	-11.2808	-0.0040	1.1585	-3.6155
9	0.02	-13.76	0.0689	-0.2864	3.8499	-11.1211	0.0020	1.1582	-4.1576
10	0.02	-12.96	0.0626	-0.2636	3.7635	-11.1031	0.0020	1.1431	-4.2115
11	0.02	-12.16	0.0623	-0.2742	3.6300	-10.9433	0.0040	1.1356	-4.4016
12	0.02	-11.42	0.0519	-0.2366	3.4571	-10.7112	0.0030	1.1275	-4.5599
13	0.02	-10.70	0.0490	-0.2146	3.3902	-10.7034	0.0060	1.1257	-4.3796
14	0.02	-9.93	0.0675	-0.2345	3.1855	-10.4399	0.0100	1.1146	-3.4741
15	0.02	-9.16	0.0727	-0.2317	3.0482	-10.3497	0.0190	1.0998	-3.1882
16	0.02	-8.36	0.0656	-0.2580	2.9655	-10.1679	0.0220	1.0899	-3.9457
17	0.02	-7.60	0.0738	-0.2783	2.9245	-10.0755	0.0230	1.0753	-3.7713
18	0.02	-6.77	0.0579	-0.2270	2.8041	-9.9570	0.0150	1.0662	-3.9216
19	0.02	-6.01	0.0669	-0.2896	2.7318	-9.9148	0.0260	1.0440	-4.3297
20	0.02	-5.21	0.0688	-0.3403	2.7373	-10.0425	0.0400	1.0272	-3.8324
21	0.02	-4.49	0.0764	-0.2789	2.5717	-10.0493	0.0350	1.0322	-3.6513
22	0.02	-3.68	0.0599	-0.2508	2.6156	-10.2169	0.0140	1.0323	-4.1880
23	0.02	-2.86	0.0591	-0.2357	2.7178	-10.6651	0.0150	1.0295	-3.9888
24	0.02	-2.09	0.0644	-0.2441	2.5437	-10.4522	0.0140	1.0211	-3.7913
25	0.02	-1.30	0.0448	-0.2317	2.4376	-10.3087	0.0180	1.0078	-5.1723
26	0.02	-0.46	0.0678	-0.2659	2.3580	-10.1423	0.0240	0.9990	-3.9221
27	0.02	0.25	0.0616	-0.2362	2.2998	-10.0268	0.0120	0.9824	-3.8351
28	0.02	1.05	0.0609	-0.2112	2.2302	-9.8284	0.0130	0.9671	-3.4690
29	0.02	1.78	0.0738	-0.2783	2.0546	-9.4856	0.0090	0.9487	-3.7713
30	0.02	2.56	0.0342	-0.2009	1.9823	-9.2754	0.0070	0.9445	-5.8717
31	0.02	3.32	0.0505	-0.2107	1.8044	-9.0043	0.0070	0.9145	-4.1723
32	0.02	4.06	0.0336	-0.1970	1.6688	-8.7515	0.0080	0.8956	-5.8643
33	0.02	4.92	0.0701	-0.2421	1.5916	-8.4414	0.0050	0.8647	-3.4542
34	0.02	5.71	0.0507	-0.2180	1.4493	-8.1652	0.0060	0.8353	-4.2994
35	0.02	6.50	0.0622	-0.2021	1.2010	-7.8337	0.0100	0.7990	-3.2489
36	0.02	7.29	0.0581	-0.2163	1.1826	-7.5769	0.0030	0.7735	-3.7236
37	0.02	8.13	0.0325	-0.1875	1.1143	-7.4172	0.0070	0.7532	-5.7692
38	0.02	8.91	0.0422	-0.1851	0.9125	-7.0047	0.0040	0.7085	-4.3858
39	0.02	9.73	0.0036	-0.1160	0.7771	-6.7412	0.0050	0.6789	-32.2333
40	0.02	10.51	0.0370	-0.1498	0.5649	-6.4212	0.0020	0.6383	-4.0486
41	0.03	11.36	0.0553	-0.1754	0.4440	-6.1739	0.0020	0.6108	-3.1721
42	0.02	12.11	0.0580	-0.1782	0.3596	-5.9117	-0.0060	0.5730	-3.0724
43	0.03	12.86	0.0575	-0.1415	0.1274	-5.5356	-0.0100	0.5292	-2.4609
44	0.03	13.62	0.0613	-0.1468	-0.1018	-5.2188	-0.0150	0.4827	-2.3951
45	0.03	14.39	0.0401	-0.0611	-0.1308	-5.0862	-0.0140	0.4716	-1.5247
46	0.03	15.17	0.0380	-0.0852	-0.3302	-4.7011	-0.0200	0.4242	-2.2421

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 72 1.01 1.7 0.0 82WOF12 0.0 30 0 30 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.03	15.94	0.0248	-0.0307	-0.5203	-4.3279	-0.0090	0.3802	-1.2387
48	0.02	16.75	0.0428	-0.1319	-0.7217	-4.1529	-0.0310	0.3408	-3.0822
49	0.04	17.55	0.0019	0.1593	-0.9947	-3.8568	-0.0090	0.2990	83.8631
50	0.03	18.43	0.0571	-0.1079	-1.1266	-3.7231	-0.0280	0.2592	-1.8904
51	0.03	19.20	0.0487	-0.0922	-1.3009	-3.5230	-0.0220	0.2260	-1.8928

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	7.2	1.01	1.7	0.0	B240F12	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	-19.91	1.5302	-0.0176	0.4865	-0.0115	0.3179	0.0462	-0.0032	0.0072	-0.0693	0.1557
2	0.02	-19.52	1.5267	-0.0168	0.4831	-0.0110	0.3165	0.0446	-0.0024	0.0078	-0.0538	0.1740
3	0.01	-18.73	1.5090	-0.0166	0.4800	-0.0110	0.3181	0.0580	-0.0004	0.0126	-0.0078	0.2177
4	0.02	-17.89	1.4972	-0.0153	0.4753	-0.0102	0.3175	0.0409	0.0012	0.0037	0.0293	0.0912
5	0.02	-17.02	1.4803	-0.0142	0.4682	-0.0096	0.3163	0.0355	0.0014	-0.0026	0.0394	-0.0724
6	0.02	-16.25	1.4619	-0.0137	0.4656	-0.0094	0.3185	0.0402	0.0029	-0.0004	0.0721	-0.0101
7	0.02	-15.41	1.4508	-0.0127	0.4620	-0.0088	0.3185	0.0286	0.0024	-0.0028	0.0856	-0.0565
8	0.02	-14.63	1.4286	-0.0114	0.4548	-0.0080	0.3184	0.0225	0.0026	-0.0055	0.1178	-0.2446
9	0.02	-13.76	1.4122	-0.0110	0.4503	-0.0078	0.3188	0.0203	0.0038	-0.0083	0.1896	-0.4106
10	0.02	-12.96	1.3958	-0.0101	0.4436	-0.0073	0.3178	0.0101	0.0040	-0.0109	0.4009	-1.0826
11	0.02	-12.16	1.3785	-0.0100	0.4407	-0.0073	0.3197	0.0202	0.0029	-0.0076	0.1460	-0.3747
12	0.02	-11.42	1.3590	-0.0089	0.4337	-0.0066	0.3192	0.0149	0.0031	-0.0079	0.2080	-0.5326
13	0.02	-10.70	1.3441	-0.0084	0.4313	-0.0062	0.3209	0.0113	0.0018	-0.0091	0.1637	-0.8084
14	0.02	-9.93	1.3218	-0.0077	0.4235	-0.0059	0.3204	0.0087	0.0016	-0.0091	0.1896	-1.0461
15	0.02	-9.16	1.3098	-0.0074	0.4221	-0.0056	0.3223	0.0064	0.0007	-0.0102	0.1172	-1.5887
16	0.02	-8.36	1.2929	-0.0073	0.4165	-0.0056	0.3222	0.0073	0.0005	-0.0082	0.0685	-1.1188
17	0.02	-7.60	1.2812	-0.0076	0.4156	-0.0060	0.3244	0.0149	0.0012	-0.0072	0.0839	-0.4856
18	0.02	-6.77	1.2657	-0.0071	0.4112	-0.0056	0.3249	0.0095	0.0008	-0.0066	0.0842	-0.6984
19	0.02	-6.01	1.2785	-0.0066	0.4187	-0.0052	0.3275	0.0156	0.0007	-0.0040	0.0449	-0.2565
20	0.02	-5.21	1.2940	-0.0045	0.4247	-0.0035	0.3282	0.0209	0.0000	-0.0033	0.0024	-0.1546
21	0.02	-4.49	1.3122	-0.0043	0.4358	-0.0033	0.3321	0.0131	0.0018	-0.0054	0.1412	-0.4149
22	0.02	-3.68	1.3013	-0.0035	0.4395	-0.0027	0.3377	0.0152	0.0001	-0.0074	0.0066	-0.4892
23	0.02	-2.86	1.3336	-0.0107	0.4636	-0.0080	0.3476	0.0073	0.0012	-0.0088	0.1712	-1.2010
24	0.02	-2.09	1.3152	-0.0151	0.4623	-0.0115	0.3515	0.0044	0.0010	-0.0077	0.2272	-1.7577
25	0.02	-1.30	1.2870	-0.0212	0.4631	-0.0165	0.3599	0.0058	0.0011	-0.0081	0.1982	-1.3909
26	0.02	-0.46	1.2610	-0.0315	0.4733	-0.0250	0.3753	0.0099	0.0010	-0.0082	0.1010	-0.8284
27	0.02	0.25	1.2266	-0.0334	0.4664	-0.0272	0.3802	0.0076	0.0011	-0.0098	0.1447	-1.2852
28	0.02	1.05	1.1964	-0.0339	0.4588	-0.0283	0.3835	0.0104	0.0012	-0.0105	0.1202	-1.0129
29	0.02	1.78	1.1695	-0.0353	0.4497	-0.0302	0.3845	0.0110	0.0007	-0.0069	0.0636	-0.6304
30	0.02	2.56	1.1204	-0.0370	0.4408	-0.0330	0.3935	0.0085	0.0005	-0.0076	0.0647	-0.8903
31	0.02	3.32	1.0686	-0.0367	0.4287	-0.0344	0.4011	0.0124	0.0009	-0.0073	0.0766	-0.5861
32	0.02	4.06	1.0353	-0.0369	0.4187	-0.0357	0.4044	0.0073	0.0006	-0.0082	0.0822	-1.1188
33	0.02	4.92	0.9789	-0.0369	0.4023	-0.0377	0.4109	0.0184	0.0002	-0.0040	0.0136	-0.2157
34	0.02	5.71	0.9309	-0.0366	0.3898	-0.0393	0.4187	0.0152	0.0004	-0.0074	0.0296	-0.4892
35	0.02	6.50	0.8822	-0.0365	0.3754	-0.0414	0.4255	0.0163	0.0002	-0.0066	0.0153	-0.4030
36	0.02	7.29	0.8326	-0.0362	0.3606	-0.0435	0.4331	0.0204	0.0001	-0.0066	0.0049	-0.3236
37	0.02	8.13	0.7924	-0.0363	0.3490	-0.0458	0.4405	0.0162	0.0003	-0.0061	0.0185	-0.3767
38	0.02	8.91	0.7375	-0.0363	0.3305	-0.0492	0.4487	0.0215	0.0003	-0.0057	0.0140	-0.2668
39	0.02	9.73	0.6926	-0.0357	0.3150	-0.0515	0.4568	0.0167	0.0002	-0.0079	0.0150	-0.4752
40	0.02	10.51	0.6396	-0.0354	0.2986	-0.0553	0.4669	0.0241	-0.0001	-0.0047	-0.0062	-0.1938
41	0.03	11.36	0.5941	-0.0349	0.2833	-0.0587	0.4769	0.0225	-0.0000	-0.0038	-0.0022	-0.1690
42	0.02	12.11	0.5403	-0.0341	0.2657	-0.0631	0.4918	0.0263	0.0000	-0.0029	0.0019	-0.1117
43	0.03	12.86	0.4848	-0.0335	0.2480	-0.0692	0.5116	0.0251	-0.0000	-0.0033	-0.0020	-0.1329
44	0.03	13.62	0.4375	-0.0329	0.2309	-0.0753	0.5277	0.0380	-0.0001	-0.0007	-0.0026	-0.0194
45	0.03	14.39	0.3873	-0.0318	0.2123	-0.0821	0.5482	0.0266	-0.0000	-0.0040	-0.0019	-0.1517
46	0.03	15.17	0.3409	-0.0306	0.1918	-0.0897	0.5625	0.0346	0.0003	-0.0037	0.0087	-0.1061

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6													
6		72 1.01 1.7		PHI CONF		L		DEL1	DEL2	DEL3	DEL4	TRANSITION	
				0.0 82WUF12		0.0		30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.03	15.94	0.2926	-0.0291	0.1724	-0.0996	0.5891	0.0266	0.0002	-0.0039	0.0094	-0.1480	
48	0.02	16.75	0.2373	-0.0273	0.1520	-0.1150	0.6408	0.0368	-0.0002	-0.0008	-0.0068	-0.0228	
49	0.04	17.55	0.2068	-0.0263	0.1366	-0.1274	0.6606	0.0372	-0.0005	-0.0024	-0.0134	-0.0646	
50	0.03	18.43	0.1509	-0.0248	0.1132	-0.1646	0.7500	0.0380	-0.0000	-0.0000	-0.0013	-0.0010	
51	0.03	19.20	0.1237	-0.0241	0.1002	-0.1948	0.8102	0.0461	-0.0000	-0.0001	-0.0011	-0.0030	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		72	1.01	1.7	0.0	B2WOF12	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	-19.91	1.6877	0.0044	0.4652	0.0029	0.2756	-0.0604	-0.0048	0.0046	0.0803	-0.0757
2	0.02	-19.52	1.6901	0.0034	0.4663	0.0020	0.2759	-0.0540	-0.0044	0.0070	0.0815	-0.1297
3	0.01	-18.73	1.6669	0.0014	0.4691	0.0008	0.2811	-0.0648	-0.0048	0.0076	0.0748	-0.1174
4	0.02	-17.89	1.6691	-0.0013	0.4667	-0.0008	0.2796	-0.0539	-0.0044	0.0063	0.0816	-0.1176
5	0.02	-17.02	1.6547	-0.0014	0.4611	-0.0008	0.2787	-0.0546	-0.0041	0.0089	0.0751	-0.1631
6	0.02	-16.25	1.6445	0.0001	0.4550	0.0001	0.2767	-0.0546	-0.0044	0.0090	0.0806	-0.1650
7	0.02	-15.41	1.6275	0.0000	0.4477	0.0000	0.2751	-0.0548	-0.0040	0.0095	0.0739	-0.1741
8	0.02	-14.63	1.5937	0.0006	0.4509	0.0004	0.2829	-0.0480	-0.0040	0.0107	0.0833	-0.2230
9	0.02	-13.76	1.5912	0.0018	0.4371	0.0012	0.2747	-0.0474	-0.0041	0.0088	0.0865	-0.1858
10	0.02	-12.96	1.5712	0.0022	0.4328	0.0014	0.2754	-0.0412	-0.0038	0.0119	0.0922	-0.2881
11	0.02	-12.16	1.5427	0.0030	0.4265	0.0019	0.2764	-0.0472	-0.0044	0.0088	0.0932	-0.1859
12	0.02	-11.42	1.5288	0.0029	0.4201	0.0019	0.2748	-0.0373	-0.0040	0.0108	0.1072	-0.2888
13	0.02	-10.70	1.5130	0.0030	0.4165	0.0020	0.2753	-0.0372	-0.0040	0.0107	0.1075	-0.2878
14	0.02	-9.93	1.4873	0.0030	0.4112	0.0020	0.2765	-0.0410	-0.0040	0.0117	0.0975	-0.2863
15	0.02	-9.16	1.4685	0.0033	0.4058	0.0022	0.2763	-0.0411	-0.0035	0.0118	0.0851	-0.2872
16	0.02	-8.36	1.4387	0.0033	0.4022	0.0023	0.2796	-0.0380	-0.0038	0.0139	0.1000	-0.3668
17	0.02	-7.60	1.4183	0.0031	0.3530	0.0022	0.2771	-0.0409	-0.0040	0.0118	0.0978	-0.2878
18	0.02	-6.77	1.4186	0.0030	0.3923	0.0021	0.2766	-0.0487	-0.0040	0.0146	0.0821	-0.2992
19	0.02	-6.01	1.3900	0.0035	0.3891	0.0026	0.2799	-0.0280	-0.0035	0.0166	0.1268	-0.5918
20	0.02	-5.21	1.3890	0.0043	0.3918	0.0031	0.2820	-0.0353	-0.0034	0.0173	0.0977	-0.4911
21	0.02	-4.49	1.4176	0.0073	0.3975	0.0051	0.2804	-0.0416	-0.0036	0.0143	0.0913	-0.3447
22	0.02	-3.68	1.4560	0.0092	0.4172	0.0063	0.2865	-0.0527	-0.0034	0.0156	0.0645	-0.2968
23	0.02	-2.86	1.4977	0.0052	0.4472	0.0035	0.2986	-0.0423	-0.0035	0.0169	0.0839	-0.3996
24	0.02	-2.09	1.4961	0.0004	0.4466	0.0003	0.2965	-0.0424	-0.0035	0.0170	0.0837	-0.4003
25	0.02	-1.30	1.4702	-0.0035	0.4436	-0.0024	0.3017	-0.0462	-0.0040	0.0186	0.0876	-0.4027
26	0.02	-0.46	1.4424	-0.0110	0.4456	-0.0076	0.3083	-0.0431	-0.0044	0.0208	0.1032	-0.4835
27	0.02	0.25	1.4275	-0.0205	0.4552	-0.0144	0.3189	-0.0503	-0.0040	0.0210	0.0805	-0.4183
28	0.02	1.05	1.3942	-0.0216	0.4483	-0.0155	0.3215	-0.0431	-0.0044	0.0208	0.1032	-0.4835
29	0.02	1.78	1.3586	-0.0226	0.4374	-0.0167	0.3220	-0.0504	-0.0045	0.0217	0.0903	-0.4307
30	0.02	2.56	1.3279	-0.0261	0.4335	-0.0197	0.3264	-0.0540	-0.0045	0.0221	0.0642	-0.4094
31	0.02	3.32	1.2850	-0.0263	0.4192	-0.0205	0.3262	-0.0545	-0.0048	0.0240	0.0890	-0.4411
32	0.02	4.06	1.2387	-0.0269	0.4116	-0.0217	0.3323	-0.0576	-0.0045	0.0219	0.0790	-0.3803
33	0.02	4.92	1.2035	-0.0268	0.3935	-0.0223	0.3270	-0.0508	-0.0048	0.0236	0.0955	-0.4640
34	0.02	5.71	1.1589	-0.0270	0.3826	-0.0233	0.3301	-0.0512	-0.0055	0.0256	0.1074	-0.5008
35	0.02	6.50	1.1064	-0.0276	0.3650	-0.0250	0.3299	-0.0473	-0.0056	0.0245	0.1184	-0.5188
36	0.02	7.29	1.0646	-0.0278	0.3534	-0.0262	0.3320	-0.0515	-0.0062	0.0275	0.1204	-0.5347
37	0.02	8.13	1.0045	-0.0279	0.3380	-0.0278	0.3365	-0.0543	-0.0058	0.0241	0.1077	-0.4439
38	0.02	8.91	0.9653	-0.0279	0.3216	-0.0289	0.3331	-0.0548	-0.0075	0.0279	0.1368	-0.5099
39	0.02	9.73	0.9178	-0.0281	0.3054	-0.0307	0.3328	-0.0648	-0.0064	0.0234	0.0995	-0.3612
40	0.02	10.51	0.8663	-0.0278	0.2880	-0.0321	0.3324	-0.0687	-0.0084	0.0265	0.1230	-0.3859
41	0.03	11.36	0.8135	-0.0271	0.2723	-0.0334	0.3347	-0.0717	-0.0098	0.0256	0.1374	-0.3572
42	0.02	12.11	0.7600	-0.0265	0.2580	-0.0349	0.3395	-0.0749	-0.0100	0.0241	0.1335	-0.3223
43	0.03	12.86	0.7127	-0.0260	0.2378	-0.0365	0.3336	-0.0800	-0.0100	0.0165	0.1250	-0.2068
44	0.03	13.62	0.6639	-0.0253	0.2215	-0.0394	0.3441	-0.0874	-0.0091	0.0167	0.1041	-0.1908
45	0.03	14.39	0.5872	-0.0241	0.2084	-0.0411	0.3548	-0.0897	-0.0084	0.0112	0.0942	-0.1250
46	0.03	15.17	0.5436	-0.0229	0.1871	-0.0422	0.3443	-0.1071	-0.0059	0.0075	0.0551	-0.0701

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 72 1.01 1.7 0.0 82WOF12 0.0 30 0 30 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	0.03	15.94	0.4844	-0.0217	0.1658	-0.0449	0.3423	-0.0806	-0.0085	0.0165	0.1061	-0.2052
48	0.02	16.75	0.4424	-0.0210	0.1504	-0.0476	0.3400	-0.1110	-0.0049	0.0066	0.0441	-0.0596
49	0.04	17.55	0.3945	-0.0201	0.1255	-0.0511	0.3180	-0.1006	-0.0091	0.0119	0.0909	-0.1181
50	0.03	18.43	0.3603	-0.0198	0.1136	-0.0549	0.3152	-0.1084	-0.0019	0.0075	0.0175	-0.0690
51	0.03	19.20	0.3068	-0.0187	0.0931	-0.0611	0.3036	-0.1019	-0.0040	0.0118	0.0397	-0.1162

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		73	1.05	1.7	0.0	B2WOF12	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
1	0.02	-19.77	0.0842	-0.3258	4.7143	-11.5004	-0.0150	1.2869	-3.8703			
2	0.02	-19.39	0.0826	-0.3056	4.7594	-11.4705	-0.0150	1.2769	-3.7002			
3	0.02	-18.59	0.1108	-0.3791	4.7431	-11.5417	-0.0130	1.2574	-3.4217			
4	0.02	-17.73	0.1165	-0.3890	4.5960	-11.5267	-0.0020	1.2627	-3.3399			
5	0.02	-16.90	0.1401	-0.4201	4.4078	-11.4283	-0.0010	1.2519	-2.9989			
6	0.02	-16.06	0.1127	-0.3437	4.2811	-11.4239	-0.0050	1.2519	-3.0504			
7	0.02	-15.31	0.1030	-0.3612	4.1119	-11.3429	0.0030	1.2533	-3.5068			
8	0.02	-14.48	0.1167	-0.3343	3.9233	-11.2029	0.0	1.2447	-2.8653			
9	0.02	-13.63	0.0939	-0.3164	3.8367	-11.0906	0.0060	1.2260	-3.3702			
10	0.02	-12.81	0.0911	-0.2885	3.6817	-10.9446	0.0090	1.2118	-3.1673			
11	0.02	-12.07	0.0667	-0.3023	3.5104	-10.8448	0.0110	1.2151	-4.5334			
12	0.02	-11.33	0.0738	-0.2343	3.3809	-10.6364	0.0060	1.1938	-3.1751			
13	0.03	-10.56	0.0714	-0.2289	3.3141	-10.4999	0.0110	1.1708	-3.2067			
14	0.02	-9.81	0.0708	-0.2731	3.2519	-10.4698	0.0110	1.1593	-3.8576			
15	0.02	-9.03	0.0658	-0.2581	3.0157	-10.2562	0.0180	1.1553	-3.9228			
16	0.02	-8.25	0.0653	-0.2744	3.0448	-10.2799	0.0200	1.1397	-4.2024			
17	0.02	-7.46	0.0664	-0.2419	2.8084	-10.1090	0.0140	1.1409	-3.6440			
18	0.02	-6.68	0.0745	-0.2793	2.7902	-10.1345	0.0220	1.1314	-3.7490			
19	0.02	-5.84	0.0859	-0.1002	2.8750	-10.2052	0.0270	1.1049	-3.4955			
20	0.02	-5.12	0.0701	-0.2961	2.7512	-10.2979	0.0280	1.1122	-4.2245			
21	0.02	-4.35	0.0705	-0.2707	2.6445	-10.4164	0.0260	1.1168	-3.8397			
22	0.02	-3.57	0.0743	-0.2850	2.6545	-10.6393	0.0120	1.1100	-3.8361			
23	0.02	-2.77	0.0394	-0.2331	2.6197	-10.5286	0.0180	1.0899	-5.9178			
24	0.02	-1.97	0.0481	-0.2363	2.4517	-10.3144	0.0150	1.0807	-4.9135			
25	0.02	-1.17	0.0667	-0.2683	2.4571	-10.2110	0.0110	1.0652	-4.0237			
26	0.02	-0.36	0.0699	-0.2728	2.2291	-9.9369	0.0110	1.0503	-3.9036			
27	0.02	0.36	0.0763	-0.2598	2.1348	-9.6879	0.0100	1.0255	-3.4052			
28	0.02	1.15	0.0620	-0.2338	2.0783	-9.5208	0.0120	1.0220	-3.7710			
29	0.02	1.88	0.0452	-0.2203	1.9515	-9.2843	0.0120	1.0082	-4.8734			
30	0.02	2.71	0.0379	-0.2110	1.8527	-9.0535	0.0100	0.9842	-5.5689			
31	0.02	3.43	0.0617	-0.2453	1.7171	-8.6991	0.0050	0.9584	-3.9770			
32	0.02	4.20	0.0383	-0.1806	1.5935	-8.5241	0.0120	0.9404	-4.7159			
33	0.02	4.99	0.0702	-0.2352	1.4457	-8.2462	0.0070	0.9082	-3.3516			
34	0.02	5.81	0.0478	-0.1939	1.4187	-8.0084	0.0090	0.8881	-4.0569			
35	0.02	6.64	0.0327	-0.1888	1.2420	-7.6691	0.0090	0.8553	-5.7731			
36	0.02	7.40	0.0726	-0.2576	1.1001	-7.4203	0.0010	0.8295	-3.5488			
37	0.02	8.22	0.0453	-0.1904	0.9307	-7.1262	0.0070	0.7943	-4.2035			
38	0.02	9.02	0.0291	-0.1947	0.7770	-6.8250	0.0040	0.7617	-6.6921			
39	0.02	9.83	0.0406	-0.1508	0.6745	-6.5256	0.0090	0.7347	-3.7153			
40	0.03	10.64	0.0540	-0.1446	0.5339	-6.2508	0.0060	0.7005	-2.6778			
41	0.02	11.47	0.0323	-0.1162	0.3508	-5.9393	0.0070	0.6672	-3.5981			
42	0.03	12.23	0.0329	-0.0760	0.2613	-5.6811	-0.0020	0.6372	-2.3119			
43	0.03	13.01	0.0415	-0.0891	0.0226	-5.2769	-0.0030	0.5944	-2.1470			
44	0.03	13.74	0.0291	-0.0427	-0.0997	-5.0258	-0.0090	0.5663	-1.4687			
45	0.03	14.54	0.0399	-0.1068	-0.2515	-4.7583	-0.0200	0.5261	-2.6782			
46	0.03	15.29	0.0385	-0.0569	-0.5495	-4.4580	-0.0160	0.4881	-1.4779			

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART				HACH RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6				73	1.05 1.7	0.0	82WOF12	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.03	16.09	0.0506	-0.0598	-0.7301	-4.1522	-0.0220	0.4504	-1.9731				
48	0.03	16.89	0.0692	-0.1549	-0.7594	-3.9992	-0.0260	0.4197	-2.2381				
49	0.03	17.67	0.0614	-0.1159	-1.0425	-3.6729	-0.0190	0.3654	-1.8886				
50	0.03	18.54	0.0175	-0.0145	-1.2920	-3.4135	-0.0140	0.3099	-0.8286				
51	0.02	19.29	0.0608	-0.2111	-1.5367	-3.1619	-0.0080	0.2622	-3.4724				

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 73 1.05 1.7			0.0	82WOF12	0.0	.30	0	30	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCFF1	YCPF1	CNF2	CH2	CB2	XCFF2	YCPF2
1	0.02	-19.77	1.5279	-0.0077	0.4820	-0.0051	0.3155	0.0468	-0.0038	0.0046	-0.0812	0.0982
2	0.02	-19.39	1.5219	-0.0091	0.4820	-0.0060	0.3167	0.0433	0.0011	0.0048	0.0266	0.1115
3	0.02	-18.59	1.5316	-0.0102	0.4760	-0.0067	0.3108	0.0532	0.0003	0.0019	0.0056	0.0362
4	0.02	-17.73	1.5125	-0.0126	0.4792	-0.0083	0.3168	0.0369	0.0026	-0.0028	0.0718	-0.0760
5	0.02	-16.90	1.4924	-0.0143	0.4765	-0.0096	0.3193	0.0404	0.0051	-0.0027	0.1275	-0.0678
6	0.02	-16.06	1.4753	-0.0136	0.4738	-0.0092	0.3212	0.0353	0.0033	-0.0022	0.0935	-0.0634
7	0.02	-15.31	1.4617	-0.0130	0.4702	-0.0089	0.3217	0.0246	0.0072	-0.0090	0.2947	-0.3660
8	0.02	-14.48	1.4432	-0.0122	0.4637	-0.0085	0.3213	0.0252	0.0043	-0.0044	0.1706	-0.1747
9	0.02	-13.63	1.4241	-0.0110	0.4572	-0.0077	0.3211	0.0185	0.0033	-0.0085	0.1810	-0.4614
10	0.02	-12.81	1.4065	-0.0098	0.4534	-0.0070	0.3223	0.0158	0.0032	-0.0078	0.2025	-0.4959
11	0.02	-12.07	1.3921	-0.0091	0.4506	-0.0065	0.3237	0.0111	0.0048	-0.0109	0.4324	-0.9821
12	0.02	-11.33	1.3613	-0.0086	0.4415	-0.0063	0.3243	0.0125	0.0025	-0.0098	0.2000	-0.7868
13	0.03	-10.56	1.3509	-0.0084	0.4370	-0.0062	0.3235	0.0147	0.0018	-0.0079	0.1224	-0.5375
14	0.02	-9.81	1.3331	-0.0084	0.4329	-0.0063	0.3247	0.0148	0.0013	-0.0080	0.0912	-0.5384
15	0.02	-9.03	1.3079	-0.0096	0.4278	-0.0073	0.3271	0.0075	0.0013	-0.0102	0.1800	-1.3601
16	0.02	-8.25	1.3122	-0.0094	0.4294	-0.0072	0.3273	0.0147	0.0008	-0.0071	0.0578	-0.4831
17	0.02	-7.46	1.2956	-0.0098	0.4255	-0.0076	0.3284	0.0158	0.0008	-0.0063	0.0506	-0.4010
18	0.02	-6.68	1.3002	-0.0102	0.4290	-0.0079	0.3300	0.0150	0.0008	-0.0081	0.0533	-0.5401
19	0.02	-5.84	1.3179	-0.0078	0.4358	-0.0060	0.3307	0.0157	0.0001	-0.0053	0.0064	-0.3356
20	0.02	-5.12	1.3309	-0.0082	0.4482	-0.0062	0.3367	0.0155	-0.0001	-0.0041	-0.0065	-0.2668
21	0.02	-4.35	1.3422	-0.0082	0.4586	-0.0061	0.3417	0.0200	-0.0012	-0.0057	-0.0600	-0.2868
22	0.02	-3.57	1.3455	-0.0156	0.4675	-0.0116	0.3475	0.0124	0.0005	-0.0080	0.0403	-0.6426
23	0.02	-2.77	1.3202	-0.0220	0.4675	-0.0167	0.3541	0.0069	0.0006	-0.0072	0.0869	-1.0436
24	0.02	-1.97	1.3034	-0.0263	0.4664	-0.0202	0.3578	0.0046	0.0007	-0.0086	0.1521	-1.8624
25	0.02	-1.17	1.2689	-0.0332	0.4718	-0.0262	0.3718	0.0047	0.0005	-0.0087	0.1064	-1.8583
26	0.02	-0.36	1.2293	-0.0342	0.4630	-0.0278	0.3766	0.0081	0.0006	-0.0067	0.0741	-0.8273
27	0.02	0.36	1.1903	-0.0345	0.4545	-0.0290	0.3819	0.0082	0.0005	-0.0068	0.0610	-0.8253
28	0.02	1.15	1.1594	-0.0358	0.4484	-0.0309	0.3868	0.0108	0.0003	-0.0068	0.0324	-0.6297
29	0.02	1.88	1.1320	-0.0371	0.4428	-0.0328	0.3912	0.0104	0.0007	-0.0105	0.0673	-1.0129
30	0.02	2.71	1.0824	-0.0374	0.4275	-0.0345	0.3953	0.0059	0.0002	-0.0079	0.0339	-1.3448
31	0.02	3.43	1.0323	-0.0371	0.4152	-0.0359	0.4022	0.0106	0.0003	-0.0059	0.0330	-0.5536
32	0.02	4.20	0.9891	-0.0368	0.4041	-0.0372	0.4085	0.0073	0.0006	-0.0088	0.0822	-1.2010
33	0.02	4.99	0.9408	-0.0365	0.3900	-0.0388	0.4145	0.0144	0.0	-0.0049	0.0	-0.3404
34	0.02	5.81	0.9018	-0.0358	0.3782	-0.0397	0.4194	0.0070	0.0003	-0.0074	0.0500	-1.0525
35	0.02	6.64	0.8451	-0.0355	0.3637	-0.0420	0.4303	0.0100	0.0	-0.0083	0.0	-0.8268
36	0.02	7.40	0.7926	-0.0356	0.3490	-0.0449	0.4403	0.0205	-0.0005	-0.0024	-0.0268	-0.1156
37	0.02	8.22	0.7497	-0.0353	0.3332	-0.0461	0.4444	0.0110	0.0000	-0.0071	0.0045	-0.6486
38	0.02	9.02	0.6985	-0.0351	0.3190	-0.0503	0.4567	0.0127	-0.0000	-0.0034	-0.0039	-0.2652
39	0.02	9.83	0.6530	-0.0344	0.3010	-0.0527	0.4609	0.0069	0.0001	-0.0065	0.0145	-0.9421
40	0.03	10.64	0.6001	-0.0339	0.2860	-0.0566	0.4767	0.0158	0.0001	-0.0051	0.0095	-0.3250
41	0.02	11.47	0.5445	-0.0327	0.2694	-0.0601	0.4948	0.0117	0.0003	-0.0048	0.0256	-0.4104
42	0.03	12.23	0.5036	-0.0313	0.2546	-0.0622	0.5055	0.0109	0.0003	-0.0069	0.0275	-0.6301
43	0.03	13.01	0.4520	-0.0300	0.2326	-0.0665	0.5146	0.0132	0.0	-0.0051	0.0	-0.3865
44	0.03	13.74	0.4049	-0.0297	0.2151	-0.0733	0.5312	0.0206	0.0	-0.0023	0.0	-0.1134
45	0.03	14.54	0.3502	-0.0284	0.1949	-0.0812	0.5565	0.0218	-0.0005	-0.0014	-0.0252	-0.0659
46	0.03	15.29	0.3041	-0.0274	0.1768	-0.0902	0.5814	0.0143	-0.0001	-0.0038	-0.0105	-0.2682

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		73	1.05 1.7	0.0	B2WOF12	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.03	16.09	0.2568	-0.0262	0.1573	-0.1022	0.6128	0.0231	-0.0010	-0.0009	-0.0433	-0.0391
48	0.03	16.89	0.2111	-0.0250	0.1389	-0.1186	0.6582	0.0243	-0.0012	-0.0003	-0.0514	-0.0125
49	0.03	17.67	0.1644	-0.0237	0.1196	-0.1441	0.7274	0.0214	-0.0010	0.0007	-0.0467	0.0341
50	0.03	18.54	0.1280	-0.0225	0.1004	-0.1758	0.7848	0.0281	-0.0011	0.0010	-0.0409	0.0343
51	0.02	19.29	0.0864	-0.0217	0.0817	-0.2517	0.9455	0.0269	-0.0009	0.0004	-0.0353	0.0135

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	73	1.05	1.7	0.0	B2WOF12	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	-19.77	1.6497	0.0057	0.4687	0.0034	0.2757	-0.0003	-0.0048	0.0078	0.0724	-0.1178
2	0.02	-19.39	1.7178	0.0050	0.4717	0.0029	0.2746	-0.0060	-0.0043	0.0072	0.0768	-0.1293
3	0.02	-18.59	1.7097	0.0061	0.4635	0.0036	0.2711	-0.0005	-0.0044	0.0114	0.0727	-0.1891
4	0.02	-17.73	1.6882	0.0032	0.4624	0.0019	0.2739	-0.0071	-0.0043	0.0117	0.0753	-0.2044
5	0.02	-16.90	1.6790	0.0015	0.4597	0.0009	0.2738	-0.0040	-0.0043	0.0131	0.0796	-0.2427
6	0.02	-16.06	1.6691	-0.0005	0.4592	-0.0003	0.2751	-0.0030	-0.0044	0.0093	0.0830	-0.1762
7	0.02	-15.31	1.6507	0.0008	0.4584	0.0005	0.2777	-0.0038	-0.0042	0.0114	0.1068	-0.2874
8	0.02	-14.48	1.6359	0.0004	0.4496	0.0002	0.2748	-0.0037	-0.0047	0.0125	0.0884	-0.2329
9	0.02	-13.63	1.6169	0.0011	0.4439	0.0007	0.2745	-0.0010	-0.0044	0.0146	0.0863	-0.2864
10	0.02	-12.81	1.5978	0.0016	0.4405	0.0010	0.2757	-0.0038	-0.0044	0.0125	0.0818	-0.2318
11	0.02	-12.07	1.5792	0.0019	0.4357	0.0012	0.2759	-0.0038	-0.0043	0.0114	0.1093	-0.2874
12	0.02	-11.33	1.5608	0.0032	0.4276	0.0020	0.2736	-0.0039	-0.0043	0.0125	0.0798	-0.2326
13	0.03	-10.56	1.5359	0.0036	0.4165	0.0023	0.2714	-0.0039	-0.0047	0.0125	0.0872	-0.2326
14	0.02	-9.81	1.5126	0.0041	0.4128	0.0027	0.2729	-0.0039	-0.0046	0.0115	0.1165	-0.2883
15	0.02	-9.03	1.5016	0.0042	0.4084	0.0028	0.2720	-0.0011	-0.0044	0.0147	0.0861	-0.2871
16	0.02	-8.25	1.4773	0.0024	0.4068	0.0017	0.2754	-0.0036	-0.0039	0.0156	0.1050	-0.4141
17	0.02	-7.46	1.4672	0.0008	0.4061	0.0006	0.2768	-0.0047	-0.0040	0.0140	0.0983	-0.3449
18	0.02	-6.68	1.4618	0.0005	0.4051	0.0004	0.2771	-0.0047	-0.0039	0.0140	0.0958	-0.3449
19	0.02	-5.84	1.4652	0.0005	0.4076	0.0003	0.2777	-0.0043	-0.0039	0.0165	0.0956	-0.4004
20	0.02	-5.12	1.4929	0.0051	0.4176	0.0034	0.2797	-0.0044	-0.0040	0.0166	0.0978	-0.4011
21	0.02	-4.35	1.4961	0.0043	0.4312	0.0029	0.2882	-0.0084	-0.0040	0.0168	0.0837	-0.3465
22	0.02	-3.57	1.5285	0.0004	0.4530	0.0003	0.2964	-0.0053	-0.0040	0.0183	0.0894	-0.4041
23	0.02	-2.77	1.5037	-0.0071	0.4523	-0.0047	0.2996	-0.0028	-0.0043	0.0210	0.0824	-0.3978
24	0.02	-1.97	1.4815	-0.0115	0.4522	-0.0078	0.3052	-0.0058	-0.0043	0.0183	0.0779	-0.3281
25	0.02	-1.17	1.4681	-0.0205	0.4621	-0.0140	0.3148	-0.0042	-0.0049	0.0204	0.1173	-0.4843
26	0.02	-0.36	1.4410	-0.0209	0.4531	-0.0145	0.3144	-0.0042	-0.0048	0.0204	0.1149	-0.4843
27	0.02	0.36	1.3965	-0.0221	0.4448	-0.0156	0.3185	-0.0034	-0.0049	0.0236	0.0927	-0.4421
28	0.02	1.15	1.3630	-0.0224	0.4370	-0.0168	0.3206	-0.0035	-0.0049	0.0236	0.0916	-0.4406
29	0.02	1.88	1.3417	-0.0266	0.4322	-0.0199	0.3221	-0.0062	-0.0047	0.0219	0.0789	-0.3645
30	0.02	2.71	1.2897	-0.0268	0.4225	-0.0208	0.3276	-0.0064	-0.0047	0.0226	0.0786	-0.3737
31	0.02	3.43	1.2476	-0.0270	0.4102	-0.0216	0.3288	-0.0073	-0.0048	0.0247	0.0838	-0.4312
32	0.02	4.20	1.2068	-0.0268	0.3941	-0.0222	0.3266	-0.0063	-0.0050	0.0226	0.0837	-0.3749
33	0.02	4.99	1.1575	-0.0274	0.3839	-0.0237	0.3317	-0.0042	-0.0050	0.0205	0.1182	-0.4848
34	0.02	5.81	1.1205	-0.0275	0.3724	-0.0246	0.3323	-0.0050	-0.0054	0.0233	0.1080	-0.4668
35	0.02	6.64	1.0620	-0.0274	0.3558	-0.0258	0.3350	-0.0048	-0.0058	0.0233	0.1174	-0.4680
36	0.02	7.40	1.0244	-0.0276	0.3423	-0.0264	0.3342	-0.0045	-0.0064	0.0227	0.2245	-0.7466
37	0.02	8.22	0.9722	-0.0276	0.3287	-0.0284	0.3380	-0.0072	-0.0064	0.0233	0.1632	-0.5954
38	0.02	9.02	0.9201	-0.0275	0.3142	-0.0299	0.3415	-0.0083	-0.0073	0.0228	0.2597	-0.8046
39	0.02	9.83	0.8626	-0.0278	0.2948	-0.0323	0.3416	-0.0087	-0.0070	0.0220	0.1621	-0.5686
40	0.03	10.64	0.8158	-0.0264	0.2786	-0.0324	0.3415	-0.0078	-0.0093	0.0202	0.2460	-0.5345
41	0.02	11.47	0.7595	-0.0259	0.2603	-0.0342	0.3427	-0.0081	-0.0093	0.0170	0.1933	-0.3944
42	0.03	12.23	0.7013	-0.0237	0.2448	-0.0339	0.3490	-0.0097	-0.0077	0.0117	0.1939	-0.2940
43	0.03	13.01	0.6474	-0.0224	0.2269	-0.0347	0.3505	-0.0040	-0.0061	0.0116	0.1521	-0.2902
44	0.03	13.74	0.5947	-0.0217	0.2105	-0.0366	0.3539	-0.0080	-0.0057	0.0105	0.0845	-0.1550
45	0.03	14.54	0.5512	-0.0215	0.1960	-0.0391	0.3555	-0.0070	-0.0030	0.0058	0.0423	-0.0815
46	0.03	15.29	0.5055	-0.0208	0.1753	-0.0412	0.3469	-0.0079	-0.0018	0.0024	0.0250	-0.0321

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 73 1.05 1.7 0.0 82WOF12 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.03	16.09	0.4502	-0.0200	0.1593	-0.0445	0.3539	-0.0670	-0.0014	0.0028	0.0216	-0.0414
48	0.03	16.89	0.4113	-0.0193	0.1386	-0.0469	0.3369	-0.0678	-0.0004	0.0047	0.0066	-0.0694
49	0.03	17.67	0.3522	-0.0185	0.1188	-0.0525	0.3372	-0.0675	-0.0002	0.0028	0.0030	-0.0416
50	0.03	18.54	0.2948	-0.0166	0.0969	-0.0564	0.3288	-0.0712	-0.0031	0.0058	0.0442	-0.0811
51	0.02	19.29	0.2578	-0.0161	0.0783	-0.0626	0.3037	-0.0656	-0.0018	0.0101	0.0282	-0.1546

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 74 1.10 1.7 0.0 B2W0F12 0.0 30 0 30 0 FIXED										
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.02	-19.89	0.0594	-0.2601	5.0657	-11.4435	-0.0110	1.2645	-4.3798	
2	0.02	-19.46	0.0756	-0.2768	4.9643	-11.2594	-0.0130	1.2989	-3.6619	
3	0.02	-18.65	0.1317	-0.3493	4.9700	-11.3485	-0.0210	1.2634	-2.6528	
4	0.02	-17.80	0.1105	-0.3507	4.5295	-11.1027	-0.0070	1.2860	-3.1738	
5	0.02	-16.97	0.0863	-0.2538	4.4082	-11.1479	-0.0070	1.3004	-2.9411	
6	0.02	-16.15	0.0903	-0.2774	4.3221	-11.0783	-0.0140	1.2341	-3.0722	
7	0.02	-15.38	0.0701	-0.2701	4.0615	-10.9584	-0.0050	1.2522	-3.6536	
8	0.02	-14.55	0.0634	-0.2087	3.9283	-10.8979	0.0040	1.2499	-3.2927	
9	0.03	-13.72	0.0929	-0.2050	3.8268	-10.7348	0.0020	1.2251	-2.2073	
10	0.03	-12.88	0.1119	-0.2436	3.7523	-10.6825	0.0090	1.1944	-2.1775	
11	0.02	-12.14	0.0639	-0.2134	3.4583	-10.4300	0.0100	1.2143	-3.3405	
12	0.03	-11.35	0.0448	-0.1137	3.4430	-10.4315	0.0070	1.1893	-2.5384	
13	0.03	-10.64	0.0384	-0.1517	3.2886	-10.3342	0.0150	1.1982	-3.9521	
14	0.03	-9.89	0.0701	-0.1691	3.2918	-10.3187	0.0180	1.1805	-2.4128	
15	0.03	-9.09	0.0877	-0.2218	3.1060	-10.1446	0.0240	1.1639	-2.5288	
16	0.02	-8.34	0.0732	-0.2294	3.0526	-10.1781	0.0310	1.1753	-3.1350	
17	0.02	-7.52	0.0748	-0.2327	2.9615	-10.0933	0.0310	1.1541	-3.1112	
18	0.02	-6.75	0.0428	-0.1709	2.9155	-10.1719	0.0340	1.1561	-3.9935	
19	0.02	-5.95	0.0599	-0.1728	2.7673	-9.9775	0.0300	1.1308	-2.8858	
20	0.02	-5.19	0.0392	-0.1879	2.6827	-10.1290	0.0260	1.1407	-4.7929	
21	0.02	-4.42	0.0795	-0.2333	2.7740	-10.3638	0.0310	1.1257	-2.9346	
22	0.02	-3.65	0.0350	-0.1600	2.6291	-10.3128	0.0190	1.1174	-4.5714	
23	0.02	-2.79	0.0513	-0.1618	2.6633	-10.3037	0.0210	1.1047	-3.1544	
24	0.02	-2.05	0.0418	-0.1435	2.4273	-10.0473	0.0140	1.1061	-3.4335	
25	0.02	-1.20	0.0354	-0.1315	2.4667	-9.9545	0.0140	1.0791	-3.7164	
26	0.02	-0.43	0.0133	-0.0856	2.2330	-9.6094	0.0140	1.0608	-6.4376	
27	0.02	0.29	0.0397	-0.1686	2.0860	-9.3236	0.0150	1.0398	-4.2463	
28	0.02	1.06	0.0001	-0.0441	1.9812	-9.2749	0.0230	1.0358	-4.1399	
29	0.02	1.81	0.0598	-0.1967	1.9241	-8.9850	0.0098	1.0140	-3.2896	
30	0.02	2.62	0.0290	-0.1296	1.7364	-8.7598	0.0120	0.9925	-4.4690	
31	0.02	3.37	0.0542	-0.1499	1.7879	-8.5062	0.0100	0.9863	-2.7653	
32	0.02	4.13	0.0288	-0.1093	1.5553	-8.1396	0.0110	0.9479	-3.7958	
33	0.02	4.93	0.0158	-0.0851	1.4546	-7.9247	0.0120	0.9208	-5.3873	
34	0.02	5.74	0.0362	-0.1147	1.2459	-7.6775	0.0130	0.8934	-3.1680	
35	0.02	6.55	0.0125	-0.0535	1.1800	-7.3033	0.0140	0.8726	-4.2800	
36	0.02	7.36	-0.0172	0.0101	0.9841	-7.0310	0.0150	0.8467	-0.5860	
37	0.03	8.14	0.0130	-0.0422	0.8859	-6.8895	0.0160	0.8064	-3.2462	
38	0.03	8.99	0.0126	-0.0456	0.8039	-6.6337	0.0110	0.7842	-3.6222	
39	0.03	9.74	-0.0124	0.0274	0.6419	-6.3160	0.0100	0.7511	-2.2065	
40	0.03	10.54	0.0001	0.0019	0.4983	-6.0100	0.0070	0.7139	18.6000	
41	0.03	11.36	0.0073	0.0118	0.2437	-5.7024	0.0070	0.6757	1.6137	
42	0.03	12.13	0.0116	-0.0442	0.2535	-5.5782	0.0010	0.6686	-3.8138	
43	0.03	12.91	-0.0020	0.0308	-0.0528	-5.1624	-0.0090	0.6133	-15.4000	
44	0.04	13.65	0.0354	0.0214	-0.1286	-4.9023	-0.0090	0.5832	0.6056	
45	0.03	14.43	0.0027	0.0962	-0.4013	-4.6534	-0.0070	0.5378	35.6370	
46	0.04	15.20	0.0418	0.0675	-0.4590	-4.4247	-0.0120	0.5172	1.6144	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 74 1.10 1.7 0.0 82WOF12 0.0 DEL1 DEL2 DEL3 DEL4 TRANSITION										
30 0 30 0 FIXED										
POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP	
47	0.03	15.98	-0.0210	0.0694	-0.6679	-4.2722	-0.0060	0.4812	-3.3048	
48	0.03	16.77	-0.0223	0.0732	-0.8793	-3.9183	-0.0100	0.4482	-3.2834	
49	0.04	17.60	0.0232	0.0545	-1.0663	-3.7096	-0.0100	0.4039	2.3500	
50	0.04	18.44	-0.0765	0.3361	-1.3185	-3.5264	0.0070	0.3696	-4.3935	
51	0.02	19.24	0.0376	-0.1166	-1.4969	-3.2586	-0.0110	0.3084	-3.1021	
52	0.03	19.77	-0.0064	0.0660	-1.0192	-3.1034	-0.0060	0.2715	-10.3063	

PAGE 2 OF 3
 SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 74 1.10 1.7			0.0	82WOF12	0.0	30	0	30	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	-19.89	1.5576	-0.0137	0.4909	-0.0088	0.3152	0.0259	-0.0038	0.0064	-0.1467	0.2483
2	0.02	-19.46	1.5544	-0.0126	0.4899	-0.0081	0.3151	0.0337	-0.0064	0.0134	-0.1899	0.3985
3	0.02	-18.65	1.5332	-0.0119	0.4823	-0.0078	0.3146	0.0377	-0.0026	0.0098	-0.0703	0.2589
4	0.02	-17.80	1.5086	-0.0101	0.4752	-0.0067	0.3150	0.0296	0.0003	0.0038	0.0118	0.1271
5	0.02	-16.97	1.5143	-0.0088	0.4758	-0.0058	0.3142	0.0284	0.0005	0.0037	0.0176	0.1290
6	0.02	-16.15	1.4646	-0.0091	0.4613	-0.0062	0.3150	0.0367	0.0029	0.0043	0.0790	0.1180
7	0.02	-15.38	1.4722	-0.0081	0.4618	-0.0055	0.3137	0.0129	0.0021	-0.0022	0.1628	-0.1707
8	0.02	-14.55	1.4428	-0.0086	0.4554	-0.0060	0.3156	0.0077	0.0049	-0.0034	0.6362	-0.4460
9	0.03	-13.72	1.4328	-0.0080	0.4543	-0.0056	0.3171	0.0117	0.0003	-0.0013	0.0256	-0.1112
10	0.03	-12.88	1.3942	-0.0083	0.4449	-0.0060	0.3191	0.0084	-0.0002	-0.0032	-0.0298	-0.3811
11	0.02	-12.14	1.3885	-0.0067	0.4425	-0.0048	0.3187	0.0027	0.0045	-0.0086	1.6849	-3.1853
12	0.03	-11.35	1.3677	-0.0064	0.4359	-0.0047	0.3187	0.0026	0.0015	-0.0063	0.5960	-2.4360
13	0.03	-10.64	1.3629	-0.0042	0.4342	-0.0031	0.3186	-0.0116	0.0030	-0.0113	-0.2586	0.9711
14	0.03	-9.89	1.3615	-0.0044	0.4336	-0.0033	0.3185	0.0003	0.0010	-0.0071	3.3327	-23.6668
15	0.03	-9.09	1.3447	-0.0043	0.4293	-0.0032	0.3192	0.0022	-0.0001	-0.0037	-0.0682	-1.6668
16	0.02	-8.34	1.3501	-0.0071	0.4357	-0.0053	0.3227	-0.0054	0.0004	-0.0092	-0.0741	1.7036
17	0.02	-7.52	1.3457	-0.0065	0.4337	-0.0048	0.3223	0.0014	0.0000	-0.0056	0.0357	-4.0239
18	0.02	-6.75	1.3516	-0.0085	0.4418	-0.0063	0.3269	-0.0010	0.0006	-0.0067	-0.6499	6.7332
19	0.02	-5.95	1.3153	-0.0087	0.4335	-0.0067	0.3296	0.0015	0.0003	-0.0064	0.2000	-4.2668
20	0.02	-5.19	1.3380	-0.0095	0.4475	-0.0071	0.3345	-0.0008	-0.0009	-0.0064	1.1248	7.9582
21	0.02	-4.42	1.3505	-0.0125	0.4566	-0.0093	0.3381	-0.0018	-0.0006	-0.0078	0.3333	4.3332
22	0.02	-3.65	1.3222	-0.0224	0.4603	-0.0169	0.3481	-0.0104	0.0008	-0.0096	-0.0769	0.9198
23	0.02	-2.79	1.3111	-0.0313	0.4685	-0.0239	0.3573	-0.0094	0.0009	-0.0087	-0.1010	0.9290
24	0.02	-2.05	1.2825	-0.0345	0.4647	-0.0269	0.3624	-0.0031	0.0006	-0.0085	-0.2096	2.7526
25	0.02	-1.20	1.2472	-0.0349	0.4545	-0.0282	0.3674	-0.0093	0.0010	-0.0089	-0.1075	0.9569
26	0.02	-0.43	1.2064	-0.0340	0.4453	-0.0282	0.3691	-0.0126	0.0009	-0.0108	-0.0714	0.8570
27	0.02	0.29	1.1684	-0.0348	0.4373	-0.0298	0.3743	-0.0091	0.0007	-0.0096	-0.0769	1.0585
28	0.02	1.06	1.1405	-0.0364	0.4345	-0.0319	0.3810	-0.0169	0.0009	-0.0139	-0.0532	0.8243
29	0.02	1.81	1.0996	-0.0370	0.4231	-0.0336	0.3848	0.0021	0.0006	-0.0091	0.3095	-4.3335
30	0.02	2.62	1.0557	-0.0363	0.4116	-0.0344	0.3898	-0.0052	0.0035	-0.0101	-0.1058	1.9486
31	0.02	3.37	1.0171	-0.0368	0.4014	-0.0362	0.3947	-0.0010	0.0006	-0.0067	-0.6499	6.7332
32	0.02	4.13	0.9599	-0.0354	0.3839	-0.0369	0.4000	-0.0049	0.0007	-0.0114	-0.1530	2.3332
33	0.02	4.93	0.9147	-0.0348	0.3717	-0.0381	0.4063	-0.0063	0.0004	-0.0107	-0.0635	1.6983
34	0.02	5.74	0.8708	-0.0341	0.3615	-0.0391	0.4151	-0.0083	0.0003	-0.0128	-0.0422	1.5380
35	0.02	6.55	0.8206	-0.0338	0.3475	-0.0412	0.4235	-0.0096	0.0004	-0.0124	-0.0469	1.2915
36	0.02	7.36	0.7774	-0.0338	0.3325	-0.0435	0.4277	-0.0111	0.0007	-0.0119	-0.0676	1.0720
37	0.03	8.14	0.7292	-0.0332	0.3163	-0.0455	0.4337	-0.0028	0.0004	-0.0095	-0.1428	3.4046
38	0.03	8.99	0.6792	-0.0321	0.3004	-0.0473	0.4423	-0.0054	0.0005	-0.0092	-0.0926	1.7036
39	0.03	9.74	0.6313	-0.0312	0.2857	-0.0495	0.4526	-0.0013	-0.0002	-0.0098	0.1923	7.5640
40	0.03	10.54	0.5779	-0.0302	0.2681	-0.0522	0.4640	-0.0014	-0.0005	-0.0092	0.3928	6.5475
41	0.03	11.36	0.5348	-0.0293	0.2529	-0.0548	0.4729	-0.0004	-0.0002	-0.0085	0.4999	21.3332
42	0.03	12.13	0.5069	-0.0294	0.2406	-0.0581	0.4746	0.0092	-0.0005	-0.0013	-0.0543	-0.1450
43	0.03	12.91	0.4526	-0.0275	0.2178	-0.0607	0.4812	0.0104	-0.0001	-0.0065	-0.0096	-0.6283
44	0.04	13.65	0.4024	-0.0276	0.2002	-0.0686	0.4974	0.0076	-0.0004	-0.0050	-0.0592	-0.6536
45	0.03	14.43	0.3535	-0.0261	0.1824	-0.0738	0.5159	0.0025	-0.0012	-0.0095	-0.4799	-3.7868
46	0.04	15.20	0.3095	-0.0260	0.1680	-0.0841	0.5428	0.0139	-0.0007	-0.0049	-0.0539	-0.3502

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 74 1.10 1.7				0.0	82WOF12	0.6	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.03	15.98	0.2572	-0.0238	0.1472	-0.0927	0.5723	-0.0078	-0.0007	-0.0139	0.0961	1.7819
48	0.03	16.77	0.2123	-0.0230	0.1291	-0.1083	0.6084	0.0044	-0.0004	-0.0075	-0.0909	-1.7122
49	0.04	17.60	0.1697	-0.0227	0.1127	-0.1340	0.6644	0.0160	-0.0010	-0.0004	-0.0555	-0.0223
50	0.04	18.44	0.1397	-0.0213	0.0981	-0.1524	0.7026	0.0024	0.0003	-0.0101	0.1250	-4.2084
51	0.02	19.24	0.0805	-0.0207	0.0739	-0.2571	0.9183	0.0105	-0.0012	-0.0059	-0.1190	-0.5620
52	0.03	19.77	0.0677	-0.0209	0.0666	-0.3094	0.9846	0.0115	-0.0005	-0.0055	-0.0478	-0.4755

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACT RX10-6		PHI CUNF		L		DEL1 DEL2		DEL3 DEL4		TRANSITION	
6		74 1.10 1.7		0.0 B2WOF12		0.0		30 0		30 0		FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
1	0.02	-19.89	1.6986	-0.0030	0.4811	-0.0018	0.2832	-0.0467	-0.0040	0.0031	0.0856	-0.0672	
2	0.02	-19.46	1.6869	-0.0028	0.4788	-0.0017	0.2838	-0.0664	-0.0047	0.0025	0.0715	-0.0373	
3	0.02	-18.65	1.6770	-0.0015	0.4736	-0.0009	0.2824	-0.0466	-0.0042	0.0032	0.0912	-0.0681	
4	0.02	-17.80	1.6539	0.0001	0.4694	0.0001	0.2838	-0.0277	-0.0041	0.0075	0.1498	-0.2697	
5	0.02	-16.97	1.6551	0.0001	0.4668	0.0001	0.2820	-0.0370	-0.0045	0.0050	0.1230	-0.1344	
6	0.02	-16.15	1.6157	0.0	0.4581	0.0	0.2828	-0.0498	-0.0051	0.0035	0.1024	-0.0704	
7	0.02	-15.38	1.6152	0.0011	0.4549	0.0007	0.2817	-0.0472	-0.0041	0.0056	0.0879	-0.1181	
8	0.02	-14.55	1.5923	-0.0000	0.4483	-0.0000	0.2815	-0.0505	-0.0048	0.0060	0.0950	-0.1183	
9	0.03	-13.72	1.5707	0.0021	0.4414	0.0014	0.2810	-0.0343	-0.0041	0.0071	0.1210	-0.2061	
10	0.03	-12.88	1.5391	0.0014	0.4333	0.0009	0.2815	-0.0351	-0.0041	0.0101	0.1182	-0.2879	
11	0.02	-12.14	1.5306	0.0014	0.4317	0.0009	0.2810	-0.0404	-0.0045	0.0054	0.1126	-0.1346	
12	0.03	-11.35	1.5110	0.0042	0.4204	0.0028	0.2782	-0.0479	-0.0041	0.0080	0.0866	-0.1678	
13	0.03	-10.64	1.5218	0.0046	0.4255	0.0031	0.2796	-0.0351	-0.0041	0.0101	0.1182	-0.2879	
14	0.03	-9.89	1.4938	0.0059	0.4182	0.0040	0.2799	-0.0409	-0.0041	0.0072	0.1014	-0.1753	
15	0.03	-9.09	1.4640	0.0035	0.4165	0.0024	0.2778	-0.0357	-0.0036	0.0125	0.1008	-0.3503	
16	0.02	-8.34	1.4600	0.0039	0.4128	0.0027	0.2827	-0.0350	-0.0038	0.0100	0.1100	-0.2868	
17	0.02	-7.52	1.4455	-0.0017	0.4107	-0.0012	0.2841	-0.0367	-0.0036	0.0111	0.0930	-0.2869	
18	0.02	-6.75	1.4375	-0.0020	0.4148	-0.0014	0.2886	-0.0356	-0.0038	0.0125	0.1067	-0.3522	
19	0.02	-5.95	1.4238	-0.0024	0.4089	-0.0017	0.2872	-0.0494	-0.0038	0.0141	0.0779	-0.2862	
20	0.02	-5.19	1.4570	0.0004	0.4215	0.0003	0.2893	-0.0450	-0.0038	0.0101	0.0855	-0.2246	
21	0.02	-4.42	1.4581	0.0009	0.4331	0.0006	0.2970	-0.0443	-0.0041	0.0141	0.0842	-0.2854	
22	0.02	-3.65	1.4754	-0.0090	0.4455	-0.0061	0.3050	-0.0495	-0.0041	0.0147	0.0838	-0.2971	
23	0.02	-2.79	1.4579	-0.0141	0.4496	-0.0097	0.3084	-0.0498	-0.0045	0.0165	0.0913	-0.3314	
24	0.02	-2.05	1.4449	-0.0219	0.4590	-0.0152	0.3176	-0.0396	-0.0045	0.0159	0.1149	-0.4016	
25	0.02	-1.20	1.4037	-0.0227	0.4492	-0.0162	0.3200	-0.0500	-0.0045	0.0171	0.0910	-0.3428	
26	0.02	-0.43	1.3592	-0.0235	0.4412	-0.0173	0.3246	-0.0527	-0.0042	0.0145	0.0806	-0.2759	
27	0.02	0.29	1.3348	-0.0242	0.4317	-0.0182	0.3234	-0.0468	-0.0045	0.0180	0.0972	-0.3847	
28	0.02	1.06	1.2931	-0.0262	0.4243	-0.0203	0.3281	-0.0692	-0.0041	0.0140	0.0600	-0.2029	
29	0.02	1.81	1.2850	-0.0276	0.4203	-0.0215	0.3271	-0.0473	-0.0046	0.0203	0.0983	-0.4300	
30	0.02	2.62	1.2435	-0.0277	0.4072	-0.0223	0.3275	-0.0571	-0.0042	0.0192	0.0797	-0.3358	
31	0.02	3.37	1.2069	-0.0278	0.3973	-0.0230	0.3292	-0.0542	-0.0046	0.0211	0.0858	-0.3900	
32	0.02	4.13	1.1562	-0.0272	0.3794	-0.0236	0.3281	-0.0467	-0.0047	0.0179	0.1017	-0.3841	
33	0.02	4.93	1.1089	-0.0270	0.3658	-0.0243	0.3299	-0.0533	-0.0047	0.0175	0.0882	-0.3291	
34	0.02	5.74	1.0633	-0.0272	0.3550	-0.0258	0.3339	-0.0547	-0.0045	0.0150	0.0854	-0.2854	
35	0.02	6.55	1.0124	-0.0271	0.3423	-0.0268	0.3382	-0.0397	-0.0051	0.0172	0.1284	-0.4325	
36	0.02	7.36	0.9665	-0.0276	0.3256	-0.0285	0.3368	-0.0492	-0.0047	0.0147	0.0955	-0.2989	
37	0.03	8.14	0.9239	-0.0269	0.3095	-0.0291	0.3349	-0.0369	-0.0064	0.0210	0.1748	-0.5692	
38	0.03	8.99	0.8674	-0.0267	0.2956	-0.0308	0.3408	-0.0466	-0.0066	0.0198	0.1416	-0.4243	
39	0.03	9.74	0.8194	-0.0255	0.2783	-0.0311	0.3397	-0.0494	-0.0064	0.0171	0.1295	-0.3469	
40	0.03	10.54	0.7676	-0.0245	0.2621	-0.0320	0.3414	-0.0386	-0.0062	0.0159	0.2137	-0.4129	
41	0.03	11.36	0.7029	-0.0233	0.2467	-0.0331	0.3510	-0.0515	-0.0066	0.0126	0.1291	-0.2454	
42	0.03	12.13	0.6714	-0.0224	0.2342	-0.0334	0.3489	-0.0550	-0.0065	0.0131	0.1191	-0.2377	
43	0.03	12.91	0.6316	-0.0218	0.2176	-0.0345	0.3445	-0.0641	-0.0063	0.0099	0.0990	-0.1551	
44	0.04	13.65	0.5766	-0.0220	0.2011	-0.0381	0.3488	-0.0704	-0.0057	0.0082	0.0810	-0.1171	
45	0.03	14.43	0.5323	-0.0213	0.1818	-0.0400	0.3415	-0.0672	-0.0045	0.0073	0.0670	-0.1087	
46	0.04	15.20	0.4903	-0.0206	0.1664	-0.0420	0.3393	-0.0773	-0.0054	0.0085	0.0705	-0.1105	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 74 1.10 1.7				0.0	B2WOF12	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.03	15.98	0.4408	-0.0210	0.1517	-0.0477	0.3441	-0.0611	-0.0023	0.0071	0.0385	-0.1169
48	0.03	16.77	0.3986	-0.0204	0.1301	-0.0512	0.3264	-0.0769	-0.0024	0.0042	0.0312	-0.0543
49	0.04	17.60	0.3545	-0.0188	0.1124	-0.0531	0.3171	-0.0802	-0.0017	0.0034	0.0218	-0.0421
50	0.04	18.44	0.3024	-0.0177	0.0918	-0.0585	0.3035	-0.0799	-0.0069	0.0071	0.0870	-0.0886
51	0.02	19.24	0.2618	-0.0167	0.0737	-0.0638	0.2816	-0.0739	-0.0004	0.0033	0.0061	-0.0443
52	0.03	19.77	0.2298	-0.0161	0.0626	-0.0703	0.2723	-0.0962	-0.0030	0.0023	0.0312	-0.0244

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	75	0.85	1.7	0.0	82WOF16	0.0	30	0	30	0
										FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.02	-19.93	0.1002	-0.1473	3.4998	-7.3585	-0.0110	0.9488	-1.4699	
2	0.01	-19.93	0.0671	-0.1919	3.5303	-7.3602	-0.0070	0.9454	-2.8605	
3	0.01	-19.63	0.0951	-0.2341	3.5582	-7.3792	-0.0080	0.9508	-2.4620	
4	0.01	-18.86	0.0976	-0.2376	3.4009	-7.2449	-0.0040	0.9437	-2.4348	
5	0.01	-18.03	0.0647	-0.2166	3.3832	-7.2511	0.0010	0.9333	-3.3474	
6	0.01	-17.15	0.1019	-0.2346	3.2282	-7.1521	0.0030	0.9376	-2.3028	
7	0.01	-16.35	0.0908	-0.2361	3.0946	-7.0711	0.0080	0.9349	-2.6004	
8	0.01	-15.52	0.0689	-0.1394	2.5577	-7.0524	0.0080	0.9311	-2.0241	
9	0.01	-14.73	0.0791	-0.1937	2.8741	-6.9694	0.0160	0.9203	-2.4493	
10	0.01	-13.89	0.0754	-0.2085	2.7682	-6.9341	0.0180	0.9134	-2.7660	
11	0.01	-13.05	0.0354	-0.1235	2.6559	-6.8518	0.0110	0.9083	-3.4904	
12	0.01	-12.25	0.0639	-0.1774	2.5814	-6.8215	0.0110	0.8965	-2.7772	
13	0.01	-11.50	0.0329	-0.1290	2.4767	-6.7609	0.0180	0.8903	-3.9228	
14	0.01	-10.71	0.0448	-0.1537	2.3507	-6.6595	0.0120	0.8756	-3.4312	
15	0.01	-9.99	0.0533	-0.1466	2.2589	-6.5670	0.0140	0.8612	-2.7508	
16	0.01	-9.18	0.0373	-0.1002	2.2296	-6.5340	0.0110	0.8510	-2.6869	
17	0.01	-8.41	0.0469	-0.1936	2.0817	-6.4390	0.0130	0.8488	-4.1292	
18	0.01	-7.65	0.0368	-0.1355	1.9960	-6.3280	0.0090	0.8304	-3.6826	
19	0.01	-6.81	0.0353	-0.2054	1.8531	-6.2058	0.0150	0.8191	-5.8193	
20	0.01	-6.03	0.0862	-0.2406	1.8820	-6.2413	0.0120	0.8168	-2.7921	
21	0.01	-5.24	0.0451	-0.1491	1.8184	-6.2272	0.0080	0.8242	-3.3069	
22	0.01	-4.50	0.0536	-0.1830	1.7268	-6.1700	0.0100	0.8277	-3.4149	
23	0.01	-3.70	0.0703	-0.2124	1.6211	-6.1190	0.0130	0.8379	-3.0216	
24	0.01	-2.89	0.0621	-0.2549	1.5606	-6.0193	0.0110	0.8219	-4.1053	
25	0.01	-2.06	0.0324	-0.1183	1.4629	-5.9276	0.0060	0.8123	-3.6531	
26	0.01	-1.31	0.0354	-0.1785	1.4683	-5.8991	0.0130	0.7961	-5.0441	
27	0.01	-0.45	0.0392	-0.2279	1.3490	-5.7331	0.0100	0.7618	-5.8133	
28	0.01	0.28	0.0497	-0.1956	1.2929	-5.6516	0.0100	0.7385	-3.9352	
29	0.01	1.07	0.0710	-0.2474	1.2336	-5.6046	0.0210	0.6999	-3.4845	
30	0.0	1.80	0.0846	-0.3624	1.1353	-5.6208	0.0390	0.6879	-4.2842	
31	0.0	2.60	0.1004	-0.3845	1.1673	-5.8037	0.0340	0.6826	-3.8303	
32	0.01	3.33	0.0892	-0.3138	1.1223	-5.8536	0.0300	0.6722	-3.5188	
33	0.01	4.12	0.0689	-0.2904	1.1232	-5.9508	0.0240	0.6752	-4.2157	
34	0.01	4.88	0.0467	-0.2293	1.0427	-6.0121	0.0290	0.6829	-4.9118	
35	0.01	5.71	0.0749	-0.2908	0.9901	-6.1005	0.0290	0.7006	-3.8833	
36	0.01	6.51	0.0596	-0.2164	0.9611	-6.1379	0.0220	0.7046	-3.6315	
37	0.01	7.26	0.0479	-0.2440	0.9337	-6.2525	0.0050	0.7198	-5.0952	
38	0.01	8.09	0.0593	-0.2410	0.8488	-6.1867	0.0140	0.7098	-4.0644	
39	0.01	8.88	0.0691	-0.2467	0.7370	-6.0661	0.0190	0.6957	-3.5708	
40	0.01	9.72	0.0140	-0.1116	0.6526	-5.9653	0.0220	0.6803	-7.9714	
41	0.01	10.49	-0.0037	0.0112	0.5521	-5.7953	0.0200	0.6678	-3.0216	
42	0.01	11.32	0.0630	-0.2562	0.4347	-5.5550	0.0060	0.6407	-4.0667	
43	0.0	12.08	0.1177	-0.4757	0.2961	-5.3368	-0.0030	0.5848	-4.0423	
44	0.01	12.87	0.0651	-0.2071	0.1761	-5.2838	-0.0050	0.5315	-3.1819	
45	0.01	13.63	0.0682	-0.1535	0.0863	-5.1691	-0.0140	0.5046	-2.2504	
46	0.01	14.43	0.0443	-0.1220	0.0014	-5.0743	-0.0240	0.4771	-2.7544	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION									
6 75 0.85 1.7 0.0 82WOF16 0.0 30 0 30 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	15.17	0.0748	-0.1787	-0.1241	-4.9426	-0.0320	0.4328	-2.3893
48	0.01	15.98	0.0906	-0.2248	-0.3386	-4.7753	-0.0310	0.4082	-2.4817
49	0.01	16.76	0.1021	-0.2479	-0.3911	-4.6267	-0.0540	0.3867	-2.4284
50	0.01	17.55	0.0840	-0.2676	-0.5848	-4.4516	-0.0460	0.3586	-3.1857
51	0.01	18.43	0.0907	-0.2779	-0.7816	-4.1341	-0.0430	0.3210	-3.0648
52	0.02	19.22	0.0293	-0.0300	-0.9499	-3.8335	-0.0180	0.2937	-1.0246
53	0.01	20.06	-0.0297	-0.0214	-1.1040	-3.4728	-0.0210	0.2486	0.7212

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 75 0.85 1.7			0.0	82WOF16	0.0	30	0	30	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	-19.93	1.2127	0.0151	0.5512	0.0125	0.4628	0.0202	0.0065	-0.0018	0.3218	-0.0876
2	0.01	-19.93	1.2111	0.0149	0.5592	0.0123	0.4617	0.0135	0.0060	-0.0084	0.2963	-0.6223
3	0.01	-19.63	1.2064	0.0156	0.5583	0.0129	0.4628	0.0199	0.0054	-0.0072	0.2714	-0.3603
4	0.01	-18.86	1.1972	0.0164	0.5504	0.0137	0.4598	0.0069	0.0052	-0.0091	0.7536	-1.3190
5	0.01	-18.03	1.1961	0.0180	0.5522	0.0150	0.4616	0.0122	0.0061	-0.0105	0.5000	-0.8635
6	0.01	-17.15	1.1762	0.0195	0.5421	0.0166	0.4609	0.0057	0.0062	-0.0115	1.0877	-2.0177
7	0.01	-16.35	1.1724	0.0212	0.5384	0.0181	0.4592	0.0114	0.0063	-0.0073	0.5526	-0.6405
8	0.01	-15.52	1.1589	0.0228	0.5307	0.0197	0.4579	0.0002	0.0043	-0.0159	21.5000	-79.6668
9	0.01	-14.73	1.1505	0.0240	0.5261	0.0209	0.4572	0.0014	0.0032	-0.0134	2.2857	-9.5954
10	0.01	-13.89	1.1372	0.0262	0.5191	0.0230	0.4565	0.0056	0.0032	-0.0100	0.5714	-1.7918
11	0.01	-13.05	1.1253	0.0280	0.5082	0.0249	0.4516	0.0048	0.0028	-0.0135	0.5833	-2.8126
12	0.01	-12.25	1.1112	0.0300	0.5013	0.0270	0.4511	0.0124	0.0035	-0.0038	0.2823	-0.3039
13	0.01	-11.50	1.0994	0.0317	0.4948	0.0288	0.4501	-0.0036	0.0013	-0.0199	-0.3611	5.5217
14	0.01	-10.71	1.0808	0.0340	0.4835	0.0315	0.4474	0.0054	0.0016	-0.0089	0.2963	-1.6483
15	0.01	-9.99	1.0621	0.0353	0.4732	0.0332	0.4455	0.0074	0.0016	-0.0102	0.2162	-1.3830
16	0.01	-9.18	1.0511	0.0370	0.4703	0.0352	0.4475	0.0147	0.0022	-0.0060	0.1497	-0.4083
17	0.01	-8.41	1.0407	0.0386	0.4604	0.0371	0.4424	0.0126	0.0013	-0.0040	0.1032	-0.3176
18	0.01	-7.65	1.0209	0.0402	0.4513	0.0394	0.4420	0.0124	0.0011	-0.0029	0.0887	-0.2313
19	0.01	-6.81	1.0090	0.0418	0.4440	0.0414	0.4401	0.0151	0.0008	-0.0071	0.0530	-0.4681
20	0.01	-6.03	1.0024	0.0429	0.4388	0.0428	0.4378	0.0283	0.0015	-0.0014	0.0530	0.0505
21	0.01	-5.24	0.9786	0.0440	0.4276	0.0450	0.4369	0.0177	0.0019	-0.0042	0.1073	-0.2374
22	0.01	-4.50	0.9771	0.0445	0.4249	0.0455	0.4348	0.0191	0.0021	-0.0029	0.1099	-0.1537
23	0.01	-3.70	0.9608	0.0452	0.4156	0.0470	0.4325	0.0111	0.0018	-0.0047	0.1622	-0.4235
24	0.01	-2.89	0.9482	0.0448	0.4114	0.0472	0.4338	0.0217	0.0025	-0.0002	0.1152	-0.0078
25	0.01	-2.06	0.9117	0.0453	0.3960	0.0497	0.4343	0.0046	0.0022	-0.0060	0.4783	-1.2972
26	0.01	-1.31	0.9040	0.0453	0.3924	0.0501	0.4341	0.0094	0.0007	-0.0046	0.0745	-0.4859
27	0.01	-0.45	0.8806	0.0455	0.3824	0.0517	0.4348	0.0185	0.0032	-0.0015	0.1730	-0.0840
28	0.01	0.28	0.8662	0.0456	0.3750	0.0526	0.4330	0.0199	0.0032	-0.0002	0.1608	-0.0085
29	0.01	1.07	0.8545	0.0459	0.3676	0.0537	0.4302	0.0244	0.0035	0.0020	0.1434	0.0832
30	0.0	1.80	0.8685	0.0462	0.3734	0.0532	0.4299	0.0308	0.0032	0.0040	0.1039	0.1287
31	0.0	2.60	0.8833	0.0479	0.3799	0.0542	0.4301	0.0356	0.0046	0.0054	0.1292	0.1506
32	0.01	3.33	0.8779	0.0494	0.3812	0.0563	0.4343	0.0294	0.0051	0.0032	0.1735	0.1087
33	0.01	4.12	0.8775	0.0500	0.3797	0.0570	0.4327	0.0268	0.0042	0.0007	0.1567	0.0272
34	0.01	4.88	0.8795	0.0503	0.3845	0.0572	0.4371	0.0125	0.0007	-0.0025	0.0560	-0.2028
35	0.01	5.71	0.8726	0.0498	0.3842	0.0571	0.4403	0.0189	0.0029	-0.0013	0.1534	-0.0689
36	0.01	6.51	0.8684	0.0502	0.3809	0.0578	0.4386	0.0124	0.0026	-0.0027	0.2097	-0.2152
37	0.01	7.26	0.8691	0.0508	0.3791	0.0585	0.4362	0.0151	0.0042	-0.0002	0.2781	-0.0112
38	0.01	8.09	0.8512	0.0487	0.3746	0.0572	0.4401	0.0157	0.0031	-0.0025	0.1975	-0.1572
39	0.01	8.88	0.8235	0.0493	0.3669	0.0599	0.4455	0.0197	0.0040	0.0015	0.2030	0.0743
40	0.01	9.72	0.8337	0.0754	0.3686	0.0904	0.4421	0.0293	0.0031	0.0042	0.1058	0.1421
41	0.01	10.49	0.8133	0.0881	0.3564	0.1083	0.4382	0.0227	0.0070	0.0020	0.3084	0.0865
42	0.01	11.32	0.7783	0.0866	0.3411	0.1113	0.4383	0.0198	0.0033	0.0013	0.1667	0.0655
43	0.0	12.08	0.7100	0.0521	0.3131	0.0734	0.4410	0.0264	0.0013	0.0023	0.0492	0.0870
44	0.01	12.87	0.6663	0.0563	0.2936	0.0845	0.4407	0.0317	0.0071	0.0061	0.2107	0.1819
45	0.01	13.63	0.6840	0.0549	0.3031	0.0803	0.4432	0.0420	0.0067	0.0083	0.1595	0.1975
46	0.01	14.43	0.4716	0.0678	0.2909	0.1438	0.4619	0.0262	0.0050	0.0036	0.1908	0.1386

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 75 0.85 1.7 0.0 B2WOF16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.17	0.3910	0.1058	0.2593	0.2706	0.6631	0.0298	0.0059	0.0036	0.1980	0.1218
48	0.01	15.98	0.3378	0.0988	0.2357	0.2925	0.6976	0.0329	0.0068	0.0052	0.2067	0.1569
49	0.01	16.76	0.3052	0.0899	0.2201	0.2946	0.7212	0.0291	0.0068	0.0069	0.2337	0.2370
50	0.01	17.55	0.2612	0.0810	0.1978	0.3101	0.7574	0.0411	0.0066	0.0074	0.1606	0.1799
51	0.01	18.43	0.1963	0.0703	0.1710	0.3581	0.8712	0.0453	0.0063	0.0113	0.1832	0.2493
52	0.02	19.22	0.1492	0.0619	0.1484	0.4149	0.9947	0.0330	0.0052	0.0051	0.1576	0.1544
53	0.01	20.06	0.0923	0.0511	0.1223	0.5536	1.3245	0.0354	0.0045	0.0016	0.1271	0.0451

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 75 0.85 1.7			0.0	82NOF16	0.0	30	0	30	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	-19.93	1.2787	0.0442	0.5406	0.0346	0.4228	-0.0331	-0.0056	-0.0064	0.1692	0.1942
2	0.01	-19.93	1.2697	0.0442	0.5416	0.0348	0.4265	-0.0374	-0.0064	-0.0067	0.1711	0.1781
3	0.01	-19.63	1.2844	0.0445	0.5406	0.0346	0.4209	-0.0247	-0.0048	-0.0050	0.1943	0.2037
4	0.01	-18.86	1.2745	0.0455	0.5321	0.0357	0.4175	-0.0245	-0.0049	-0.0058	0.2000	0.2353
5	0.01	-18.03	1.2569	0.0474	0.5280	0.0377	0.4201	-0.0374	-0.0064	-0.0067	0.1711	0.1781
6	0.01	-17.15	1.2364	0.0480	0.5240	0.0388	0.4238	-0.0295	-0.0048	-0.0036	0.1627	0.1230
7	0.01	-16.35	1.2070	0.0501	0.5138	0.0415	0.4257	-0.0207	-0.0041	-0.0038	0.1981	0.1835
8	0.01	-15.52	1.2056	0.0522	0.5060	0.0433	0.4197	-0.0255	-0.0038	-0.0025	0.1490	0.0979
9	0.01	-14.73	1.1909	0.0539	0.4977	0.0453	0.4179	-0.0206	-0.0038	-0.0039	0.1845	0.1876
10	0.01	-13.89	1.1691	0.0562	0.4822	0.0481	0.4210	-0.0129	-0.0015	-0.0008	0.1163	0.0619
11	0.01	-13.05	1.1617	0.0577	0.4863	0.0497	0.4186	-0.0255	-0.0028	-0.0025	0.1098	0.0979
12	0.01	-12.25	1.1529	0.0593	0.4782	0.0514	0.4147	-0.0129	-0.0013	-0.0008	0.1008	0.0619
13	0.01	-11.50	1.1385	0.0610	0.4711	0.0536	0.4138	-0.0262	-0.0023	-0.0000	0.0878	0.0012
14	0.01	-10.71	1.1267	0.0627	0.4597	0.0556	0.4080	-0.0181	-0.0008	0.0021	0.0442	-0.1143
15	0.01	-9.99	1.0980	0.0639	0.4500	0.0582	0.4098	0.0044	-0.0003	0.0003	-0.0682	0.0605
16	0.01	-9.18	1.0878	0.0657	0.4456	0.0604	0.4096	-0.0174	-0.0015	-0.0004	0.0862	0.0229
17	0.01	-8.41	1.0573	0.0665	0.4392	0.0629	0.4154	-0.0139	-0.0003	0.0024	0.0216	-0.1704
18	0.01	-7.65	1.0346	0.0676	0.4306	0.0653	0.4162	-0.0137	-0.0005	0.0016	0.0365	-0.1193
19	0.01	-6.81	1.0320	0.0687	0.4206	0.0666	0.4075	-0.0091	-0.0005	0.0011	0.0549	-0.1173
20	0.01	-6.03	1.0027	0.0697	0.4116	0.0695	0.4105	-0.0004	0.0	0.0017	0.0	-4.1608
21	0.01	-5.24	0.9944	0.0706	0.4116	0.0710	0.4140	-0.0005	0.0007	0.0016	-1.4000	-3.2668
22	0.01	-4.50	0.9932	0.0707	0.4041	0.0712	0.4069	-0.0005	0.0007	0.0016	-1.4000	-3.2668
23	0.01	-3.70	0.9762	0.0712	0.4003	0.0729	0.4100	-0.0103	0.0009	0.0051	-0.0874	-0.4920
24	0.01	-2.89	0.9406	0.0707	0.3875	0.0752	0.4124	0.0076	0.0022	0.0038	0.2895	0.5043
25	0.01	-2.06	0.9521	0.0699	0.3859	0.0734	0.4053	-0.0103	0.0009	0.0051	-0.0874	-0.4920
26	0.01	-1.31	0.9233	0.0696	0.3761	0.0754	0.4073	-0.0020	0.0024	0.0064	-1.2000	-3.2168
27	0.01	-0.45	0.8964	0.0692	0.3658	0.0772	0.4081	0.0075	0.0021	0.0038	0.2600	0.5065
28	0.01	0.28	0.8742	0.0687	0.3524	0.0786	0.4031	0.0115	0.0024	0.0056	0.2087	0.4897
29	0.01	1.07	0.8385	0.0694	0.3401	0.0828	0.4056	0.0064	0.0031	0.0078	0.4844	1.2238
30	0.0	1.80	0.8489	0.0695	0.3331	0.0838	0.4019	0.0020	0.0023	0.0084	1.1500	4.1832
31	0.0	2.60	0.8364	0.0703	0.3368	0.0841	0.4027	0.0020	0.0024	0.0085	1.2000	4.2332
32	0.01	3.33	0.8478	0.0720	0.3479	0.0849	0.4104	0.0055	0.0043	0.0111	0.7818	2.0241
33	0.01	4.12	0.8638	0.0740	0.3463	0.0857	0.4009	0.0015	0.0041	0.0093	2.7333	6.1999
34	0.01	4.88	0.8574	0.0739	0.3475	0.0862	0.4053	0.0116	0.0032	0.0058	0.2759	0.4970
35	0.01	5.71	0.8766	0.0735	0.3519	0.0838	0.4014	0.0156	0.0034	0.0078	0.2179	0.4999
36	0.01	6.51	0.8735	0.0736	0.3581	0.0843	0.4099	0.0020	0.0024	0.0086	1.2000	4.2832
37	0.01	7.26	0.8950	0.0731	0.3664	0.0817	0.4054	0.0203	0.0031	0.0073	0.1527	0.3578
38	0.01	8.09	0.8745	0.0716	0.3553	0.0819	0.4063	0.0159	0.0019	0.0077	0.1195	0.4842
39	0.01	8.88	0.8512	0.0701	0.3390	0.0824	0.3983	0.0021	0.0009	0.0092	0.4286	4.3808
40	0.01	9.72	0.8116	0.0690	0.3296	0.0850	0.4062	-0.0102	-0.0003	0.0052	0.0294	-0.5099
41	0.01	10.49	0.7884	0.0686	0.3188	0.0870	0.4044	-0.0065	0.0006	0.0078	-0.0923	-1.2052
42	0.01	11.32	0.7908	0.1133	0.3211	0.1433	0.4061	-0.0010	-0.0013	0.0049	1.3000	-4.8668
43	0.0	12.08	0.7395	0.1124	0.3015	0.1520	0.4077	0.0023	-0.0001	0.0092	-0.0455	3.9854
44	0.01	12.87	0.7000	0.0698	0.2795	0.0997	0.3992	-0.0011	-0.0003	0.0048	0.2727	-4.3941
45	0.01	13.63	0.6628	0.0778	0.2698	0.1174	0.4070	-0.0264	-0.0038	-0.0001	0.1439	0.0037
46	0.01	14.43	0.6473	0.0970	0.2637	0.1499	0.4074	-0.0297	-0.0052	-0.0045	0.1751	0.1514

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACF RX10-6												
6 75 0.85 1.7												
PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 82WOF16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	15.17	0.6257	0.1305	0.2462	0.2092	0.3948	-0.0235	-0.0068	-0.0109	0.2894	0.4651
48	0.01	15.98	0.5830	0.1242	0.2247	0.2130	0.3854	-0.0251	-0.0050	-0.0060	0.1992	0.2376
49	0.01	16.76	0.5623	0.1141	0.2133	0.2029	0.3793	-0.0522	-0.0111	-0.0213	0.2126	0.4079
50	0.01	17.55	0.5193	0.1043	0.1922	0.2208	0.3702	-0.0485	-0.0095	-0.0186	0.1959	0.3827
51	0.01	18.43	0.4561	0.0903	0.1667	0.1980	0.3654	-0.0268	-0.0076	-0.0154	0.2836	0.5758
52	0.02	19.22	0.3864	0.0762	0.1367	0.1972	0.3537	-0.0175	-0.0031	-0.0011	0.1771	0.0646
53	0.01	20.06	0.3169	0.0650	0.1137	0.2051	0.3588	-0.0177	-0.0026	-0.0003	0.1469	0.0168

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	76	0.92	1.7	0.0	B2WOF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-19.91	0.0886	-0.2550	3.6474	-7.6261	-0.0200	0.9924	-2.8786		
2	0.01	-19.90	0.0500	-0.1610	3.7399	-7.6206	-0.0180	0.9899	-3.2200		
3	0.01	-19.55	0.0739	-0.2654	3.7098	-7.6894	-0.0140	0.9915	-3.5922		
4	0.01	-18.80	0.0790	-0.2216	3.6455	-7.6874	-0.0230	0.9732	-2.8051		
5	0.0	-17.98	0.0119	-0.1596	3.4625	-7.6372	-0.0200	0.9944	-13.4168		
6	0.01	-17.09	0.0782	-0.2664	3.4337	-7.6697	-0.0120	0.9710	-3.4077		
7	0.01	-16.30	0.0895	-0.2533	3.2491	-7.6003	-0.0380	0.9836	-2.8302		
8	0.01	-15.47	0.0790	-0.2646	3.1872	-7.6106	0.0030	0.9816	-3.3494		
9	0.02	-14.69	0.1026	-0.2176	2.9811	-7.5431	0.0050	0.9956	-2.1212		
10	0.01	-13.85	0.0606	-0.2088	2.9000	-7.5526	0.0100	0.9937	-3.4462		
11	0.01	-13.01	0.0424	-0.1733	2.8198	-7.4853	0.0350	0.9810	-4.0887		
12	0.01	-12.27	0.0623	-0.2052	2.7092	-7.4595	0.0100	0.9810	-3.2941		
13	0.01	-11.46	0.0695	-0.2413	2.6437	-7.4206	0.0120	0.9642	-3.4719		
14	0.01	-10.73	0.0523	-0.1742	2.5502	-7.4247	0.0130	0.9727	-3.3312		
15	0.01	-9.98	0.0422	-0.1931	2.4370	-7.4272	0.0120	0.9645	-4.5754		
16	0.01	-9.21	0.0563	-0.2138	2.3745	-7.4127	0.0170	0.9623	-3.7979		
17	0.01	-8.44	0.0690	-0.2366	2.3018	-7.3830	0.0140	0.9639	-3.4290		
18	0.01	-7.65	0.0645	-0.2123	2.1660	-7.2759	0.0170	0.9519	-3.2915		
19	0.01	-6.83	0.0452	-0.2263	2.2537	-7.3636	0.0160	0.9367	-5.0062		
20	0.01	-6.04	0.0635	-0.2169	2.0600	-7.2035	0.0150	0.9368	-3.4157		
21	0.01	-5.29	0.0735	-0.2439	2.0080	-7.2157	0.0140	0.9330	-3.3184		
22	0.01	-4.54	0.0538	-0.1923	1.9711	-7.1540	0.0100	0.9292	-3.5747		
23	0.01	-3.75	0.0471	-0.2189	1.7461	-6.9849	0.0150	0.9336	-4.6484		
24	0.01	-2.93	0.0497	-0.2206	1.7509	-6.9506	0.0150	0.9206	-4.4382		
25	0.01	-2.12	0.0623	-0.2592	1.7207	-7.0023	0.0160	0.9236	-4.1608		
26	0.0	-1.37	0.1504	-0.5635	1.6374	-7.0337	0.0580	0.9259	-3.7471		
27	0.0	-0.57	0.1347	-0.5345	1.7273	-7.3105	0.0730	0.9476	-3.9687		
28	0.0	0.19	0.0897	-0.3595	1.6936	-7.6563	0.0330	0.9729	-4.0087		
29	0.01	0.94	0.0636	-0.2630	1.7598	-7.8650	0.0310	0.9771	-4.1359		
30	0.01	1.72	0.0656	-0.2478	1.7414	-8.0122	0.0320	0.9905	-3.7780		
31	0.0	2.45	0.0814	-0.3269	1.6007	-7.9362	0.0300	0.9816	-4.0167		
32	0.0	3.19	0.0479	-0.2770	1.5830	-7.9184	0.0240	0.9666	-5.7841		
33	0.01	3.98	0.0529	-0.2440	1.5309	-7.8285	0.0220	0.9515	-4.6136		
34	0.0	4.75	0.0743	-0.3140	1.4304	-7.7808	0.0240	0.9435	-4.2264		
35	0.0	5.58	0.0558	-0.2641	1.3595	-7.6006	0.0170	0.9087	-4.7333		
36	0.01	6.38	0.0589	-0.2534	1.2011	-7.4088	0.0350	0.8941	-4.3032		
37	0.0	7.17	0.0833	-0.3386	1.0597	-6.7568	0.0220	0.8251	-4.0651		
38	0.01	7.98	0.0762	-0.3016	0.9204	-6.4579	0.0190	0.7853	-3.9591		
39	0.0	8.78	0.0821	-0.3439	0.7811	-6.2259	0.0260	0.7514	-4.1893		
40	0.0	9.61	0.0828	-0.3449	0.7107	-6.0533	0.0400	0.7264	-4.1657		
41	0.01	10.42	0.0626	-0.2426	0.5770	-5.6812	0.0180	0.6732	-3.8160		
42	0.01	11.22	0.1058	-0.3181	0.4507	-5.5724	0.0330	0.6447	-3.0068		
43	0.01	11.98	0.0878	-0.2809	0.3356	-5.7831	-0.0020	0.6438	-3.1995		
44	0.01	12.79	0.0756	-0.2558	0.2812	-5.6139	0.0070	0.6137	-3.3841		
45	0.01	13.51	0.0757	-0.2379	0.1101	-5.3024	-0.0070	0.5647	-3.1437		
46	0.01	14.32	0.0509	-0.1512	-0.0814	-5.0394	-0.0140	0.5152	-2.9717		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 76 0.92 1.7 0.0 82HOF16 0.0 DEL1 DEL2 DEL3 DEL4 TRANSITION									
6 76 0.92 1.7 0.0 82HOF16 0.0 30 0 30 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	15.07	0.0888	-0.2003	-0.1686	-4.8633	-0.0210	0.4881	-2.2559
48	0.01	15.86	0.0946	-0.2294	-0.3564	-4.6544	-0.0120	0.4414	-2.4254
49	0.01	16.64	0.1071	-0.2969	-0.4815	-4.4842	-0.0210	0.4033	-2.7725
50	0.01	17.47	0.0497	-0.1386	-0.6673	-4.2481	-0.0290	0.3528	-2.7883
51	0.01	18.31	0.0531	-0.1763	-0.8143	-3.9803	-0.0340	0.3029	-3.3209
52	0.01	19.13	0.0201	-0.0901	-1.0808	-3.6423	-0.0060	0.2471	-4.4846
53	0.01	19.95	0.0265	-0.1361	-1.2060	-3.3949	-0.0120	0.2084	-5.1358

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION		
6	76	0.92	1.7	0.0	8240F16	0.0	30	0	30	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCFF1	YCFF1	CNF2	CH2	C82	XCFF2	YCFF2
1	0.01	-19.91	1.0476	0.0103	0.5960	0.0098	0.5689	0.0558	0.0077	0.0052	0.1380	0.0931
2	0.01	-19.90	1.0469	0.0100	0.5989	0.0096	0.5721	0.0424	0.0049	-0.0017	0.1156	-0.0394
3	0.01	-19.55	1.0535	0.0100	0.5975	0.0095	0.5672	0.0493	0.0030	-0.0043	0.0609	-0.0867
4	0.01	-18.80	1.0430	0.0112	0.5916	0.0107	0.5673	0.0543	0.0050	-0.0003	0.0921	-0.0056
5	0.0	-17.98	1.0382	0.0123	0.5895	0.0118	0.5679	0.0576	0.0057	0.0048	0.0990	0.0832
6	0.01	-17.09	1.0217	0.0140	0.5826	0.0137	0.5703	0.0446	-0.0018	-0.0085	-0.0404	-0.1914
7	0.01	-16.30	1.0053	0.0160	0.5742	0.0159	0.5712	0.0411	-0.0007	-0.0071	-0.0170	-0.1729
8	0.01	-15.47	1.0071	0.0172	0.5749	0.0171	0.5708	0.0372	-0.0047	-0.0149	-0.1263	-0.4007
9	0.02	-14.69	0.9917	0.0193	0.5701	0.0193	0.5749	0.0321	-0.0026	-0.0133	-0.0810	-0.4144
10	0.01	-13.85	0.9879	0.0205	0.5656	0.0208	0.5725	0.0351	-0.0025	-0.0134	-0.0712	-0.3819
11	0.01	-13.01	0.9707	0.0220	0.5568	0.0227	0.5736	0.0303	-0.0017	-0.0127	-0.0561	-0.4193
12	0.01	-12.27	0.9643	0.0240	0.5508	0.0249	0.5712	0.0237	-0.0028	-0.0161	-0.1181	-0.6794
13	0.01	-11.46	0.9600	0.0258	0.5459	0.0269	0.5686	0.0324	-0.0018	-0.0151	-0.0556	-0.4662
14	0.01	-10.73	0.9516	0.0272	0.5415	0.0286	0.5690	0.0249	-0.0024	-0.0153	-0.0964	-0.6146
15	0.01	-9.98	0.9497	0.0295	0.5322	0.0311	0.5603	0.0316	-0.0013	-0.0123	-0.0411	-0.3883
16	0.01	-9.21	0.9466	0.0302	0.5310	0.0319	0.5610	0.0305	-0.0022	-0.0138	-0.0721	-0.4537
17	0.01	-8.44	0.9484	0.0320	0.5288	0.0337	0.5576	0.0430	0.0003	-0.0049	0.0070	-0.1133
18	0.01	-7.65	0.9354	0.0336	0.5231	0.0359	0.5592	0.0323	-0.0015	-0.0096	-0.0464	-0.2984
19	0.01	-6.83	0.9218	0.0348	0.5137	0.0378	0.5572	0.0384	-0.0009	-0.0103	-0.0234	-0.2683
20	0.01	-6.04	0.9119	0.0355	0.5057	0.0389	0.5545	0.0321	-0.0006	-0.0095	-0.0187	-0.2961
21	0.01	-5.29	0.8947	0.0368	0.4979	0.0411	0.5565	0.0321	-0.0003	-0.0095	-0.0093	-0.2961
22	0.01	-4.54	0.8827	0.0368	0.4913	0.0417	0.5566	0.0321	-0.0004	-0.0095	-0.0125	-0.2961
23	0.01	-3.75	0.8655	0.0371	0.4817	0.0429	0.5566	0.0272	-0.0005	-0.0079	-0.0184	-0.2918
24	0.01	-2.93	0.8567	0.0366	0.4766	0.0427	0.5563	0.0284	-0.0006	-0.0065	-0.0211	-0.2302
25	0.01	-2.12	0.8615	0.0350	0.4787	0.0406	0.5556	0.0426	-0.0003	-0.0038	-0.0070	-0.0893
26	0.0	-1.37	0.8992	0.0332	0.4597	0.0369	0.5557	0.0686	-0.0008	0.0068	-0.0117	0.0985
27	0.0	-0.57	0.9363	0.0339	0.5234	0.0362	0.5590	0.0617	-0.0024	0.0054	-0.0389	0.0869
28	0.0	0.19	0.9359	0.0352	0.5288	0.0376	0.5650	0.0383	0.0005	-0.0040	0.0131	-0.1054
29	0.01	0.94	0.9464	0.0359	0.5383	0.0379	0.5685	0.0316	-0.0006	-0.0074	-0.0190	-0.2332
30	0.01	1.72	0.9598	0.0372	0.5438	0.0388	0.5666	0.0273	-0.0008	-0.0080	-0.0293	-0.2932
31	0.0	2.45	0.9504	0.0380	0.5403	0.0400	0.5685	0.0339	0.0010	-0.0051	0.0295	-0.1506
32	0.0	3.19	0.9383	0.0404	0.5302	0.0431	0.5650	0.0269	0.0	-0.0070	0.0	-0.2616
33	0.01	3.98	0.9266	0.0429	0.5235	0.0463	0.5654	0.0269	0.0	-0.0070	0.0	-0.2616
34	0.0	4.75	0.9198	0.0458	0.5225	0.0498	0.5680	0.0395	0.0016	-0.0040	0.0405	-0.1022
35	0.0	5.58	0.8761	0.0467	0.5042	0.0533	0.5755	0.0363	0.0018	-0.0032	0.0496	-0.0883
36	0.01	6.38	0.8681	0.0736	0.5075	0.0848	0.5846	0.0392	0.0016	-0.0024	0.0408	-0.0622
37	0.0	7.17	0.7913	0.0879	0.4676	0.1111	0.5909	0.0422	0.0021	-0.0019	0.0498	-0.0459
38	0.01	7.98	0.7503	0.0911	0.4452	0.1214	0.5934	0.0410	0.0019	-0.0031	0.0463	-0.0765
39	0.0	8.78	0.7439	0.0781	0.4362	0.1050	0.5837	0.0422	0.0018	-0.0019	0.0427	-0.0459
40	0.0	9.61	0.4594	0.0848	0.4441	0.1846	0.9666	0.0383	0.0014	-0.0039	0.0366	-0.1028
41	0.01	10.42	0.3319	0.1156	0.3969	0.3483	1.1958	0.0422	0.0027	-0.0016	0.0640	-0.0388
42	0.01	11.22	0.3215	0.1169	0.3841	0.3636	1.1948	0.0465	0.0039	-0.0009	0.0839	-0.0195
43	0.01	11.98	0.3190	0.1126	0.3817	0.3530	1.1965	0.0488	0.0051	0.0019	0.1045	0.0381
44	0.01	12.79	0.2880	0.1101	0.3605	0.3823	1.2516	0.0427	0.0034	-0.0035	0.0796	-0.0813
45	0.01	13.51	0.2372	0.1071	0.3309	0.4515	1.3952	0.0562	0.0057	0.0024	0.1014	0.0432
46	0.01	14.32	0.1910	0.1024	0.3045	0.5361	1.5945	0.0437	0.0037	-0.0011	0.0847	-0.0261

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 76 0.92 1.7 0.0 82WOF16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.07	0.1571	0.0948	0.2844	0.6034	1.8106	0.0431	0.0045	0.0009	0.1044	0.0200
48	0.01	15.86	0.1086	0.0865	0.2640	0.7965	2.4308	0.0437	0.0042	-0.0008	0.0961	-0.0192
49	0.01	16.64	0.0745	0.0749	0.2460	1.0054	3.3023	0.0521	0.0061	0.0019	0.1171	0.0357
50	0.01	17.47	0.0067	0.0723	0.2124	10.7910	31.7063	0.0527	0.0074	0.0055	0.1404	0.1036
51	0.01	18.31	-0.0417	0.0654	0.1833	-1.5683	-4.3958	0.0491	0.0067	0.0021	0.1365	0.0420
52	0.01	19.13	-0.0846	0.0582	0.1549	-0.6879	-1.8311	0.0551	0.0070	0.0028	0.1270	0.0501
53	0.01	19.95	-0.1298	0.0491	0.1299	-0.3783	-1.0011	0.0646	0.0084	0.0081	0.1300	0.1258

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 76 0.92 1.7 0.0 82W0F16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
1	0.01	-19.91	1.4023	0.0409	0.5577	0.0292	0.3977	-0.0792	-0.0080	0.0021	0.1010	-0.0266
2	0.01	-19.90	1.4279	0.0408	0.5595	0.0286	0.3921	-0.0636	-0.0066	0.0025	0.1038	-0.0394
3	0.01	-19.55	1.4123	0.0420	0.5546	0.0297	0.3927	-0.0786	-0.0089	0.0000	0.1132	-0.0001
4	0.01	-18.80	1.4080	0.0421	0.5541	0.0299	0.3935	-0.0792	-0.0042	0.0022	0.1035	-0.0279
5	0.0	-17.98	1.3839	0.0440	0.5494	0.0318	0.3970	-0.0635	-0.0071	0.0024	0.1118	-0.0384
6	0.01	-17.09	1.3838	0.0452	0.5430	0.0327	0.3924	-0.0758	-0.0073	0.0038	0.0963	-0.0507
7	0.01	-16.30	1.3585	0.0468	0.5407	0.0344	0.3980	-0.0684	-0.0059	0.0052	0.0863	-0.0761
8	0.01	-15.47	1.3431	0.0481	0.5352	0.0358	0.3985	-0.0684	-0.0057	0.0058	0.0833	-0.0849
9	0.02	-14.69	1.3311	0.0502	0.5292	0.0377	0.3976	-0.0571	-0.0043	0.0074	0.0753	-0.1291
10	0.01	-13.85	1.3137	0.0512	0.5185	0.0390	0.3947	-0.0560	-0.0057	0.0044	0.1018	-0.0793
11	0.01	-13.01	1.2933	0.0538	0.5131	0.0416	0.3968	-0.0633	-0.0066	0.0025	0.1043	-0.0396
12	0.01	-12.27	1.2852	0.0552	0.5102	0.0430	0.3970	-0.0648	-0.0048	0.0076	0.0741	-0.1174
13	0.01	-11.46	1.2806	0.0571	0.5031	0.0446	0.3929	-0.0559	-0.0057	0.0045	0.1020	-0.0800
14	0.01	-10.73	1.2803	0.0587	0.5000	0.0458	0.3905	-0.0603	-0.0050	0.0063	0.0829	-0.1046
15	0.01	-9.98	1.2544	0.0608	0.4902	0.0485	0.3908	-0.0526	-0.0043	0.0068	0.0817	-0.1288
16	0.01	-9.21	1.2518	0.0620	0.4890	0.0495	0.3907	-0.0366	-0.0034	0.0057	0.0929	-0.1559
17	0.01	-8.44	1.2249	0.0638	0.4788	0.0521	0.3909	-0.0568	-0.0036	0.0080	0.0634	-0.1404
18	0.01	-7.65	1.2257	0.0651	0.4762	0.0531	0.3885	-0.0487	-0.0034	0.0071	0.0698	-0.1452
19	0.01	-6.83	1.2043	0.0657	0.4698	0.0546	0.3901	-0.0486	-0.0034	0.0071	0.0700	-0.1462
20	0.01	-6.04	1.2050	0.0662	0.4645	0.0549	0.3855	-0.0492	-0.0027	0.0092	0.0549	-0.1871
21	0.01	-5.29	1.1765	0.0662	0.4602	0.0563	0.3912	-0.0461	-0.0014	0.0116	0.0304	-0.2525
22	0.01	-4.54	1.1707	0.0664	0.4528	0.0567	0.3868	-0.0375	-0.0014	0.0092	0.0373	-0.2455
23	0.01	-3.75	1.1330	0.0661	0.4455	0.0583	0.3932	-0.0418	-0.0014	0.0105	0.0335	-0.2505
24	0.01	-2.93	1.1296	0.0655	0.4356	0.0580	0.3856	-0.0332	-0.0020	0.0080	0.0602	-0.2421
25	0.01	-2.12	1.1181	0.0654	0.4300	0.0585	0.3846	-0.0426	-0.0003	0.0133	0.0070	-0.3123
26	0.0	-1.37	1.0682	0.0653	0.4095	0.0611	0.3834	-0.0391	-0.0003	0.0150	0.0077	-0.3829
27	0.0	-0.57	1.0876	0.0643	0.4136	0.0591	0.3803	-0.0319	0.0007	0.0170	-0.0219	-0.5320
28	0.0	0.19	1.2147	0.0658	0.4715	0.0542	0.3881	-0.0396	0.0007	0.0158	-0.0177	-0.3991
29	0.01	0.94	1.2509	0.0666	0.4781	0.0532	0.3822	-0.0385	-0.0003	0.0122	0.0078	-0.3161
30	0.01	1.72	1.2645	0.0671	0.4834	0.0531	0.3822	-0.0347	0.0006	0.0128	-0.0155	-0.3309
31	0.0	2.45	1.2706	0.0682	0.4852	0.0537	0.3819	-0.0315	0.0018	0.0147	-0.0571	-0.4668
32	0.0	3.19	1.2540	0.0699	0.4787	0.0557	0.3817	-0.0391	-0.0001	0.0150	0.0026	-0.3829
33	0.01	3.98	1.2359	0.0707	0.4777	0.0572	0.3865	-0.0391	-0.0001	0.0150	0.0026	-0.3829
34	0.0	4.75	1.2034	0.0711	0.4704	0.0591	0.3909	-0.0311	-0.0004	0.0147	0.0129	-0.4739
35	0.0	5.58	1.1743	0.0714	0.4588	0.0608	0.3907	-0.0360	0.0005	0.0181	-0.0139	-0.5629
36	0.01	6.38	1.1469	0.0715	0.4445	0.0623	0.3875	-0.0328	0.0	0.0213	0.0	-0.6485
37	0.0	7.17	1.0587	0.1189	0.4236	0.1125	0.4009	-0.0242	-0.0007	0.0187	0.0248	-0.6632
38	0.01	7.98	0.9966	0.1205	0.4013	0.1209	0.4027	-0.0196	-0.0013	0.0163	0.0663	-0.8301
39	0.0	8.78	0.9579	0.1229	0.3756	0.1283	0.3921	-0.0316	-0.0022	0.0170	0.0696	-0.5370
40	0.0	9.61	0.9078	0.1271	0.3556	0.1400	0.3917	-0.0280	-0.0029	0.0187	0.1036	-0.6668
41	0.01	10.42	0.8557	0.1391	0.3358	0.1626	0.3925	-0.0284	-0.0036	0.0208	0.1268	-0.7337
42	0.01	11.22	0.8327	0.1461	0.3238	0.1755	0.3888	-0.0272	-0.0035	0.0158	0.1287	-0.5822
43	0.01	11.98	0.8818	0.1446	0.3333	0.1640	0.3780	-0.0428	-0.0074	0.0162	0.1729	-0.3794
44	0.01	12.79	0.8288	0.1402	0.3104	0.1692	0.3745	-0.0311	-0.0070	0.0170	0.2251	-0.5478
45	0.01	13.51	0.7709	0.1350	0.2886	0.1751	0.3743	-0.0542	-0.0081	0.0141	0.1494	-0.2609
46	0.01	14.32	0.7226	0.1268	0.2649	0.1755	0.3666	-0.0676	-0.0092	0.0052	0.1361	-0.0765

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 76 0.92 1.7 0.0 82WOF16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	15.07	0.6852	0.1210	0.2454	0.1766	0.3582	-0.0627	-0.0103	0.0025	0.1643	-0.0400
48	0.01	15.26	0.6260	0.1151	0.2218	0.1839	0.3543	-0.0630	-0.0095	0.0025	0.1508	-0.0398
49	0.01	16.64	0.5848	0.1040	0.2043	0.1778	0.3493	-0.0624	-0.0089	-0.0005	0.1426	0.0079
50	0.01	17.47	0.5290	0.0904	0.1848	0.1709	0.3493	-0.0624	-0.0093	-0.0005	0.1490	0.0079
51	0.01	18.31	0.4933	0.0815	0.1578	0.1652	0.3198	-0.0630	-0.0080	0.0003	0.1270	-0.0049
52	0.01	19.13	0.4087	0.0696	0.1271	0.1703	0.3109	-0.0337	-0.0036	0.0082	0.1068	-0.2425
53	0.01	19.95	0.3546	0.0635	0.1073	0.1791	0.3025	-0.0325	-0.0066	0.0046	0.2031	-0.1406

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 77 0.97 1.7			0.0	B2NOF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	-19.76	0.0956	-0.2828	4.2592	-8.3016	-0.0230	1.0664	-2.9586	
2	0.0	-19.61	0.0744	-0.3011	4.1371	-8.5405	-0.0210	1.0431	-4.0479	
3	0.0	-18.84	0.0841	-0.3337	3.8901	-8.5377	-0.0220	1.0545	-3.9684	
4	-0.01	-18.00	-0.0057	-0.3060	3.7721	-8.3425	-0.0130	1.0969	53.6877	
5	0.01	-17.08	0.0917	-0.2463	4.1118	-8.4801	-0.0130	1.0589	-2.6868	
6	0.01	-16.33	0.0956	-0.2418	3.7647	-8.6291	-0.0050	1.0385	-2.5297	
7	0.0	-15.45	0.0745	-0.3433	3.3553	-8.1989	0.0010	1.0790	-4.6081	
8	0.0	-14.82	0.0667	-0.2973	3.4116	-8.9726	0.0160	1.0845	-4.4585	
9	0.0	-13.91	0.0153	-0.2374	3.4525	-9.2200	0.0140	1.0964	-15.5176	
10	0.02	-12.99	0.1499	-0.3218	3.2097	-8.7370	0.0020	1.0737	-2.1472	
11	0.01	-12.38	0.1003	-0.2954	2.6514	-8.6242	0.0180	1.1480	-2.9454	
12	0.0	-11.49	0.0152	-0.2223	3.0623	-9.6796	0.0160	1.0911	-14.6237	
13	0.01	-10.76	0.0994	-0.2741	2.9648	-8.9361	0.0100	1.0932	-2.7581	
14	0.01	-10.11	0.1153	-0.3044	2.8026	-9.1780	0.0190	1.1469	-2.6402	
15	0.0	-9.23	0.0516	-0.2492	2.4348	-8.7050	0.0130	1.1189	-4.8302	
16	0.01	-8.47	0.0642	-0.2508	2.6038	-6.8986	0.0170	1.0992	-3.9078	
17	0.02	-7.61	0.1444	-0.3151	2.4613	-8.7621	0.0100	1.1285	-2.1825	
18	0.01	-6.92	0.0803	-0.2624	2.4928	-8.9132	0.0150	1.1036	-3.2680	
19	0.01	-6.14	0.0544	-0.2321	2.4383	-8.9739	0.0210	1.1154	-4.2676	
20	0.01	-5.38	0.1011	-0.3185	2.3289	-8.9807	0.0260	1.1239	-3.1507	
21	0.0	-4.63	0.0616	-0.3302	2.3209	-9.1075	0.0310	1.1294	-5.3610	
22	0.0	-3.82	0.0701	-0.3141	2.3253	-9.3186	0.0360	1.1461	-4.4813	
23	0.0	-2.99	0.0942	-0.3518	2.5434	-9.6559	0.0210	1.1479	-3.7355	
24	0.01	-2.19	0.0665	-0.2611	2.3161	-9.5307	0.0200	1.1323	-3.9263	
25	0.0	-1.44	0.0944	-0.3611	2.2524	-9.5205	0.0260	1.1219	-3.8258	
26	0.01	-0.62	0.0827	-0.3077	2.0986	-9.4212	0.0150	1.1147	-3.7216	
27	0.0	0.13	0.0602	-0.2592	2.1515	-9.4853	0.0170	1.1124	-4.3070	
28	0.0	0.91	0.0760	-0.2974	2.0076	-9.2119	0.0170	1.0688	-3.9132	
29	0.0	1.65	0.0856	-0.3318	1.9793	-9.1322	0.0140	1.0570	-3.8766	
30	0.01	2.44	0.0964	-0.3229	1.7700	-8.8171	0.0090	1.0142	-3.3502	
31	0.01	3.18	0.0884	-0.3167	1.7014	-8.6701	0.0160	0.9852	-3.5833	
32	0.0	3.95	0.0740	-0.2966	1.4600	-8.4192	0.0140	0.9579	-4.0081	
33	0.0	4.73	0.0587	-0.2531	1.5244	-8.3263	0.0160	0.9351	-4.3131	
34	0.01	5.56	0.0824	-0.2943	1.4085	-8.1551	0.0070	0.9168	-3.5723	
35	0.01	6.38	0.0962	-0.3176	1.3883	-7.9309	0.0020	0.8711	-3.3023	
36	0.01	7.12	0.0752	-0.2632	1.1226	-7.5678	0.0090	0.8332	-3.5011	
37	0.01	7.95	0.0882	-0.2814	1.0364	-7.2432	0.0050	0.7814	-3.1914	
38	0.01	8.73	0.0586	-0.2320	0.8876	-7.0919	0.0420	0.7804	-3.9597	
39	0.01	9.56	0.0918	-0.2805	0.7329	-6.7863	0.0390	0.7501	-3.0558	
40	0.01	10.37	0.0908	-0.3291	0.7710	-6.7127	0.0140	0.7317	-3.6247	
41	0.01	11.16	0.0824	-0.2233	0.5883	-6.4789	0.0060	0.6955	-2.7107	
42	0.02	11.94	0.0529	-0.0561	0.4484	-6.3291	0.0	0.6592	-1.0597	
43	0.02	12.74	0.1023	-0.2032	0.3438	-6.2585	-0.0090	0.6550	-1.9865	
44	0.01	13.44	0.0535	-0.1429	0.0207	-5.8062	-0.0130	0.5866	-2.6710	
45	0.01	14.28	0.0710	-0.2144	0.0539	-5.5627	-0.0190	0.5539	-3.0197	
46	0.01	15.03	0.0646	-0.1564	-0.0866	-5.4061	-0.0120	0.5124	-2.4217	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		77	0.97	1.7	0.0	B2WUF16	0.0	30	0	30	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP			
47	0.01	15.80	0.0933	-0.2486	-0.2941	-5.0666	-0.0260	0.4584	-2.6647			
48	0.01	16.55	0.0991	-0.3177	-0.6058	-4.6695	-0.0390	0.3777	-3.2063			
49	0.0	17.42	0.0231	-0.1883	-0.5173	-4.5031	-0.0300	0.3739	-8.1532			
50	0.02	18.23	0.0419	-0.0557	-0.8011	-4.2868	-0.0150	0.3157	-1.3284			
51	0.02	19.04	0.0122	-0.0001	-1.0062	-3.7257	-0.0070	0.2565	-0.0066			
52	0.01	19.85	0.0353	-0.1854	-1.3397	-3.5807	-0.0140	0.1962	-5.2527			
53	0.01	20.27	-0.0293	0.0290	-1.3527	-3.1865	-0.0100	0.1579	-0.9904			

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 77 0.97 1.7			0.0	82WOF16	0.0	30	0	30	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	-19.76	-0.0527	0.0020	0.7446	-0.0380	-14.1298	0.0813	0.0098	0.0034	0.1205	0.0417
2	0.0	-19.61	-0.0580	0.0030	0.7382	-0.0517	-12.7271	0.0630	0.0035	0.0039	0.1508	0.0618
3	0.0	-18.84	-0.0618	0.0036	0.7401	-0.0583	-11.9758	0.0761	0.0109	0.0016	0.1432	0.0205
4	-0.01	-18.00	-0.0546	0.0045	0.7438	-0.0824	-13.6228	0.0718	0.0067	-0.0023	0.0933	-0.0317
5	0.01	-17.08	-0.0586	0.0061	0.7417	-0.1041	-12.6565	0.0652	0.0061	-0.0044	0.0936	-0.0671
6	0.01	-16.33	-0.0639	0.0069	0.7458	-0.1080	-11.6715	0.0605	0.0037	-0.0075	0.0612	-0.1246
7	0.0	-15.45	-0.0703	0.0109	0.7339	-0.1550	-10.4392	0.0516	0.0037	-0.0118	0.0717	-0.2288
8	0.0	-14.82	-0.0611	0.0119	0.7439	-0.1948	-12.1758	0.0462	0.0007	-0.0122	0.0152	-0.2642
9	0.0	-13.91	-0.0697	0.0140	0.7382	-0.2009	-10.5908	0.0533	0.0006	-0.0072	0.0113	-0.1358
10	0.02	-12.99	-0.0829	0.0164	0.7284	-0.1978	-8.7862	0.0510	0.0017	-0.0103	0.0333	-0.2021
11	0.01	-12.38	-0.0847	0.0183	0.7222	-0.2161	-8.5263	0.0403	0.0002	-0.0175	0.0050	-0.4335
12	0.0	-11.49	-0.0864	0.0191	0.7304	-0.2211	-8.4538	0.0469	0.0004	-0.0163	0.0085	-0.3470
13	0.01	-10.76	-0.0959	0.0204	0.7172	-0.2127	-7.4791	0.0482	0.0007	-0.0163	0.0145	-0.3390
14	0.01	-10.11	-0.0924	0.0211	0.7160	-0.2284	-7.7490	0.0467	0.0	-0.0161	0.0	-0.3456
15	0.0	-9.23	-0.0994	0.0216	0.7095	-0.2173	-7.1376	0.0474	-0.0002	-0.0133	-0.0042	-0.2807
16	0.01	-8.47	-0.1042	0.0227	0.7014	-0.2179	-6.7311	0.0487	-0.0006	-0.0187	-0.0123	-0.3834
17	0.02	-7.61	-0.1015	0.0227	0.7011	-0.2236	-6.9072	0.0606	0.0001	-0.0054	0.0017	-0.0892
18	0.01	-6.92	-0.1023	0.0230	0.6994	-0.2248	-6.8369	0.0510	-0.0006	-0.0113	-0.0118	-0.2217
19	0.01	-6.14	-0.0969	0.0238	0.7029	-0.2456	-7.2540	0.0363	-0.0020	-0.0236	-0.0551	-0.6503
20	0.01	-5.38	-0.0877	0.0240	0.7062	-0.2737	-8.0522	0.0509	-0.0009	-0.0103	-0.0177	-0.2031
21	0.0	-4.63	-0.0805	0.0239	0.7131	-0.2969	-8.8581	0.0521	-0.0010	-0.0092	-0.0192	-0.1773
22	0.0	-3.82	-0.0534	0.0235	0.7308	-0.4401	-13.6855	0.0417	-0.0015	-0.0120	-0.0360	-0.2879
23	0.0	-2.99	-0.0421	0.0235	0.7377	-0.5582	-17.5219	0.0539	0.0009	-0.0060	0.0167	-0.1121
24	0.01	-2.19	-0.0463	0.0243	0.7325	-0.5248	-15.8201	0.0405	-0.0012	-0.0131	-0.0296	-0.3236
25	0.0	-1.44	-0.0480	0.0244	0.7366	-0.5083	-15.3460	0.0464	0.0003	-0.0092	0.0065	-0.1991
26	0.01	-0.62	-0.0488	0.0251	0.7369	-0.5143	-15.1012	0.0515	0.0013	-0.0077	0.0252	-0.1503
27	0.0	0.13	-0.0684	0.0265	0.7308	-0.3874	-10.6843	0.0422	-0.0015	-0.0143	-0.0355	-0.1398
28	0.0	0.91	-0.0807	0.0275	0.7160	-0.3408	-8.8725	0.0501	0.0011	-0.0076	0.0220	-0.1518
29	0.0	1.65	-0.0985	0.0286	0.7041	-0.2904	-7.1480	0.0575	0.0027	-0.0045	0.0470	-0.0790
30	0.01	2.44	-0.1251	0.0297	0.6870	-0.2374	-5.4917	0.0581	0.0022	-0.0071	0.0379	-0.1229
31	0.01	3.18	-0.1438	0.0329	0.6727	-0.2288	-4.6179	0.0582	0.0021	-0.0072	0.0361	-0.1238
32	0.0	3.95	-0.1640	0.0317	0.6536	-0.1933	-3.9851	0.0504	0.0012	-0.0088	0.0238	-0.1747
33	0.0	4.73	-0.1862	0.0332	0.6378	-0.1783	-3.4251	0.0452	0.0004	-0.0105	0.0088	-0.2332
34	0.01	5.56	-0.2033	0.0377	0.6188	-0.1854	-3.0436	0.0503	0.0011	-0.0085	0.0219	-0.1698
35	0.01	6.38	-0.2250	0.0492	0.5938	-0.2187	-2.6392	0.0645	0.0029	-0.0046	0.0450	-0.0714
36	0.01	7.12	-0.2471	0.0515	0.5676	-0.2084	-2.2964	0.0546	0.0013	-0.0090	0.0238	-0.1650
37	0.01	7.95	-0.2905	0.0591	0.5394	-0.2034	-1.8568	0.0598	0.0020	-0.0076	0.0334	-0.1267
38	0.01	8.73	-0.2841	0.0981	0.5712	-0.3453	-2.0107	0.0597	0.0017	-0.0064	0.0285	-0.1073
39	0.01	9.56	-0.2942	0.0954	0.5494	-0.3243	-1.8673	0.0536	0.0009	-0.0097	0.0168	-0.1817
40	0.01	10.37	-0.3136	0.0935	0.5193	-0.2982	-1.6559	0.0712	0.0038	-0.0026	0.0534	-0.0362
41	0.01	11.16	-0.3541	0.0933	0.4933	-0.2635	-1.3931	0.0589	0.0017	-0.0086	0.0289	-0.1456
42	0.02	11.94	-0.3849	0.0890	0.4656	-0.2312	-1.2098	0.0449	0.0003	-0.0111	0.0060	-0.2219
43	0.02	12.74	-0.4006	0.0823	0.4476	-0.2054	-1.1174	0.0613	0.0028	-0.0068	0.0457	-0.1105
44	0.01	13.44	-0.4352	0.0780	0.4182	-0.1742	-0.9609	0.0615	0.0026	-0.0077	0.0423	-0.1253
45	0.01	14.28	-0.4787	0.0719	0.3837	-0.1502	-0.8015	0.0696	0.0049	-0.0010	0.0704	-0.0145
46	0.01	15.03	-0.5083	0.0661	0.3645	-0.1300	-0.7171	0.0671	0.0047	-0.0019	0.0700	-0.0289

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 77 0.97 1.7 0.0 B2WOF16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.80	-0.5518	0.0608	0.3338	-0.1102	-0.6050	0.0719	0.0065	0.0027	0.0904	0.0370
48	0.01	16.55	-0.6024	0.0559	0.2988	-0.0928	-0.4960	0.0800	0.0077	0.0044	0.0962	0.0545
49	0.0	17.42	-0.6480	0.0508	0.2719	-0.0784	-0.4196	0.0778	0.0071	0.0033	0.0913	0.0427
50	0.02	18.23	-0.6859	0.0461	0.2437	-0.0672	-0.3554	0.0714	0.0063	0.0016	0.0882	0.0223
51	0.02	19.04	-0.7214	0.0399	0.2176	-0.0553	-0.3017	0.0742	0.0071	0.0023	0.0957	0.0313
52	0.01	19.85	-0.7649	0.0333	0.1861	-0.0435	-0.2433	0.0735	0.0070	-0.0001	0.0952	-0.0015
53	0.01	20.27	-0.7797	0.0290	0.1689	-0.0372	-0.2166	0.0770	0.0069	0.0031	0.0896	0.0397

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 77 0.97 1.7				0.0	82WOF16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
1	0.01	-19.76	1.5845	0.0375	0.6030	0.0236	0.3794	-0.1079	-0.0097	0.0080	0.0899	-0.0746
2	0.0	-19.61	1.5888	0.0376	0.6062	0.0237	0.3816	-0.1076	-0.0108	0.0073	0.1004	-0.0683
3	0.0	-18.84	1.5820	0.0386	0.6031	0.0244	0.3813	-0.1117	-0.0108	0.0085	0.0967	-0.0759
4	-0.01	-18.00	1.5932	0.0411	0.6009	0.0258	0.3772	-0.1021	-0.0047	0.0126	0.0852	-0.1232
5	0.01	-17.08	1.5694	0.0422	0.5536	0.0269	0.3783	-0.1088	-0.0097	0.0107	0.0892	-0.0988
6	0.01	-16.33	1.5588	0.0434	0.5941	0.0278	0.3811	-0.1079	-0.0106	0.0079	0.0982	-0.0736
7	0.0	-15.45	1.5421	0.0463	0.5883	0.0300	0.3815	-0.0868	-0.0086	0.0115	0.0991	-0.1322
8	0.0	-14.82	1.5480	0.0476	0.5564	0.0307	0.3853	-0.0804	-0.0065	0.0146	0.0808	-0.1817
9	0.0	-13.91	1.5203	0.0502	0.5901	0.0330	0.3881	-0.0836	-0.0067	0.0136	0.0801	-0.1632
10	0.02	-12.99	1.5108	0.0520	0.5766	0.0344	0.3817	-0.0944	-0.0075	0.0142	0.0794	-0.1509
11	0.01	-12.38	1.5005	0.0541	0.5744	0.0361	0.3828	-0.0868	-0.0075	0.0140	0.0864	-0.1610
12	0.0	-11.49	1.5043	0.0561	0.5830	0.0373	0.3875	-0.0904	-0.0081	0.0139	0.0896	-0.1535
13	0.01	-10.76	1.4749	0.0567	0.5705	0.0384	0.3868	-0.0939	-0.0085	0.0142	0.0905	-0.1513
14	0.01	-10.11	1.4817	0.0577	0.5731	0.0389	0.3863	-0.0827	-0.0075	0.0135	0.0907	-0.1638
15	0.0	-9.23	1.4691	0.0584	0.5642	0.0392	0.3789	-0.0865	-0.0075	0.0140	0.0867	-0.1616
16	0.01	-8.47	1.4686	0.0591	0.5555	0.0402	0.3782	-0.0862	-0.0081	0.0140	0.0940	-0.1621
17	0.02	-7.61	1.4713	0.0593	0.5572	0.0403	0.3787	-0.0727	-0.0052	0.0163	0.0715	-0.2239
18	0.01	-6.92	1.4663	0.0600	0.5514	0.0409	0.3760	-0.0832	-0.0066	0.0156	0.0793	-0.1872
19	0.01	-6.14	1.4795	0.0592	0.5551	0.0400	0.3752	-0.0937	-0.0087	0.0142	0.0928	-0.1513
20	0.01	-5.38	1.4603	0.0600	0.5503	0.0411	0.3768	-0.0809	-0.0052	0.0191	0.0643	-0.2364
21	0.0	-4.63	1.4569	0.0600	0.5476	0.0412	0.3758	-0.0898	-0.0046	0.0178	0.0659	-0.2556
22	0.0	-3.82	1.5005	0.0596	0.5661	0.0397	0.3773	-0.0808	-0.0052	0.0191	0.0644	-0.2361
23	0.0	-2.99	1.5225	0.0608	0.5790	0.0399	0.3803	-0.0780	-0.0034	0.0213	0.0436	-0.2732
24	0.01	-2.19	1.5417	0.0597	0.5822	0.0387	0.3776	-0.0728	-0.0052	0.0162	0.0714	-0.2231
25	0.0	-1.44	1.5425	0.0598	0.5792	0.0388	0.3755	-0.0667	-0.0034	0.0201	0.0510	-0.3010
26	0.01	-0.62	1.5523	0.0610	0.5823	0.0393	0.3752	-0.0690	-0.0052	0.0158	0.0754	-0.2291
27	0.0	0.13	1.5472	0.0616	0.5772	0.0398	0.3731	-0.0727	-0.0052	0.0162	0.0715	-0.2225
28	0.0	0.91	1.5135	0.0624	0.5603	0.0412	0.3702	-0.0699	-0.0034	0.0184	0.0486	-0.2634
29	0.0	1.65	1.5050	0.0635	0.5565	0.0422	0.3698	-0.0636	-0.0020	0.0216	0.0314	-0.3397
30	0.01	2.44	1.4751	0.0647	0.5431	0.0439	0.3682	-0.0707	-0.0024	0.0211	0.0339	-0.2990
31	0.01	3.18	1.4360	0.0645	0.5261	0.0449	0.3664	-0.0670	-0.0022	0.0207	0.0328	-0.3086
32	0.0	3.95	1.3940	0.0639	0.5130	0.0458	0.3680	-0.0668	-0.0026	0.0200	0.0389	-0.3000
33	0.0	4.73	1.3570	0.0650	0.4990	0.0478	0.3677	-0.0742	-0.0032	0.0209	0.0431	-0.2813
34	0.01	5.56	1.3193	0.0684	0.4876	0.0518	0.3696	-0.0700	-0.0032	0.0185	0.0457	-0.2639
35	0.01	6.38	1.2816	0.0740	0.4678	0.0577	0.3650	-0.0678	-0.0020	0.0240	0.0295	-0.3541
36	0.01	7.12	1.2266	0.0747	0.4478	0.0609	0.3651	-0.0641	-0.0024	0.0236	0.0374	-0.3688
37	0.01	7.95	1.1475	0.0820	0.4173	0.0715	0.3636	-0.0637	-0.0028	0.0217	0.0440	-0.3403
38	0.01	8.73	1.1157	0.0955	0.3996	0.0856	0.3581	-0.0583	-0.0034	0.0146	0.0583	-0.2500
39	0.01	9.56	1.0865	0.1365	0.3954	0.1256	0.3640	-0.0582	-0.0040	0.0146	0.0687	-0.2510
40	0.01	10.37	1.0629	0.1343	0.3868	0.1264	0.3639	-0.0560	-0.0022	0.0195	0.0393	-0.3489
41	0.01	11.16	1.0325	0.1274	0.3707	0.1234	0.3591	-0.0734	-0.0040	0.0163	0.0545	-0.2226
42	0.02	11.94	1.0161	0.1168	0.3505	0.1149	0.3449	-0.0789	-0.0061	0.0105	0.0773	-0.1332
43	0.02	12.74	0.9757	0.1113	0.3348	0.1141	0.3432	-0.0833	-0.0061	0.0129	0.0732	-0.1554
44	0.01	13.44	0.9034	0.1062	0.3093	0.1176	0.3424	-0.0900	-0.0069	0.0111	0.0767	-0.1235
45	0.01	14.28	0.8316	0.1022	0.2836	0.1229	0.3410	-0.0893	-0.0069	0.0084	0.0773	-0.0946
46	0.01	15.03	0.7613	0.0973	0.2586	0.1245	0.3310	-0.0895	-0.0063	0.0085	0.0704	-0.0947

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 77 0.97 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 B2WUF16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	0.01	15.80	0.7291	0.0917	0.2364	0.1258	0.3243	-0.0994	-0.0077	0.0031	0.0775	-0.0310
48	0.01	16.55	0.6682	0.0829	0.2107	0.1241	0.3153	-0.1060	-0.0090	-0.0001	0.0849	0.0011
49	0.0	17.42	0.6120	0.0744	0.1842	0.1216	0.3010	-0.1008	-0.0075	0.0058	0.0744	-0.0577
50	0.02	18.23	0.5360	0.0657	0.1546	0.1226	0.2884	-0.0866	-0.0087	0.0075	0.1005	-0.0871
51	0.02	19.04	0.4840	0.0580	0.1307	0.1198	0.2700	-0.0730	-0.0095	0.0126	0.1301	-0.1723
52	0.01	19.85	0.4229	0.0482	0.1036	0.1140	0.2450	-0.0756	-0.0110	0.0082	0.1455	-0.1086
53	0.01	20.27	0.3613	0.0444	0.0836	0.1229	0.2314	-0.0704	-0.0087	0.0156	0.1236	-0.2222

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	78	1.01	1.7	0.0	B2WUFL6	0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.0	-19.94	0.1220	-0.4067	4.2174	-8.8900	-0.0160	1.1588	-3.3344		
2	0.02	-19.57	0.1181	-0.2373	4.1699	-8.9064	-0.0070	1.1747	-2.0097		
3	0.0	-18.79	0.1073	-0.3782	4.0977	-8.8913	-0.0170	1.1505	-3.5249		
4	0.01	-17.97	0.0958	-0.2431	3.8746	-8.9660	-0.0060	1.1651	-2.5378		
5	0.01	-17.15	0.1163	-0.3318	3.7594	-9.2147	0.0010	1.1955	-2.8531		
6	0.01	-16.31	0.1467	-0.3703	3.7069	-9.1632	-0.0030	1.1744	-2.5247		
7	0.01	-15.52	0.1207	-0.3099	3.6504	-9.2490	0.0050	1.1641	-2.5682		
8	0.01	-14.69	0.1475	-0.3665	3.4707	-9.1715	0.0160	1.1593	-2.4847		
9	0.01	-13.90	0.1259	-0.2962	3.3304	-9.1479	0.0150	1.1543	-2.3531		
10	0.01	-13.03	0.1026	-0.3146	3.1607	-9.0823	0.0160	1.1507	-3.0667		
11	0.01	-12.28	0.1038	-0.2313	3.1212	-9.0711	0.0120	1.1375	-2.2285		
12	0.01	-11.49	0.0933	-0.2656	2.9927	-9.0921	0.0170	1.1407	-2.8469		
13	0.01	-10.76	0.1134	-0.2607	2.9195	-9.1647	0.0160	1.1448	-2.2995		
14	0.01	-10.01	0.1095	-0.2813	2.8258	-9.1555	0.0240	1.1557	-2.5689		
15	0.01	-9.23	0.1196	-0.2628	2.7775	-9.2009	0.0200	1.1630	-2.2737		
16	0.01	-8.43	0.0720	-0.2288	2.7399	-9.3472	0.0240	1.1884	-3.1778		
17	0.01	-7.68	0.0992	-0.2948	2.7248	-9.5130	0.0270	1.2047	-2.9726		
18	0.01	-6.90	0.1131	-0.3053	2.5822	-9.5073	0.0250	1.2073	-2.6997		
19	0.01	-6.08	0.1147	-0.2765	2.5984	-9.6179	0.0220	1.2143	-2.4113		
20	0.01	-5.32	0.1049	-0.3108	2.6012	-9.7548	0.0350	1.2197	-2.9634		
21	0.01	-4.56	0.0903	-0.2524	2.4432	-9.6956	0.0240	1.2099	-2.7953		
22	0.01	-3.79	0.1051	-0.2941	2.4756	-9.8040	0.0240	1.2024	-2.7987		
23	0.01	-2.94	0.0971	-0.2979	2.3398	-9.7589	0.0230	1.1842	-3.0684		
24	0.01	-2.18	0.0919	-0.2886	2.3070	-9.7089	0.0220	1.1616	-3.1410		
25	0.01	-1.38	0.1016	-0.3222	2.1968	-9.5427	0.0220	1.1277	-3.1717		
26	0.01	-0.56	0.1131	-0.3533	2.1618	-9.4017	0.0220	1.0961	-3.1241		
27	0.01	0.20	0.1005	-0.3247	2.0364	-9.2612	0.0200	1.0763	-3.2308		
28	0.01	0.97	0.0896	-0.2694	1.9348	-9.0600	0.0180	1.0479	-3.0071		
29	0.01	1.74	0.0918	-0.3025	1.8147	-8.8797	0.0160	1.0075	-3.2954		
30	0.01	2.49	0.0972	-0.2810	1.7520	-8.6989	0.0190	0.9920	-2.8918		
31	0.01	3.27	0.0996	-0.3054	1.6262	-8.5618	0.0190	0.9405	-3.0667		
32	0.01	4.02	0.0835	-0.2859	1.5880	-8.5404	0.0150	1.0000	-3.4240		
33	0.01	4.85	0.0871	-0.2819	1.5488	-8.3605	0.0080	0.9897	-3.2370		
34	0.01	5.64	0.0956	-0.2858	1.4217	-8.0816	0.0070	0.9648	-2.9900		
35	0.01	6.46	0.1074	-0.3053	1.2411	-7.7608	0.0030	0.9273	-2.8432		
36	0.01	7.22	0.0811	-0.2155	1.1002	-7.7154	0.0520	0.9305	-2.6577		
37	0.01	8.01	0.0838	-0.2293	1.0397	-7.4628	0.0470	0.8964	-2.7365		
38	0.01	8.84	0.0674	-0.2213	0.9314	-7.4361	0.0040	0.8962	-3.2843		
39	0.01	9.64	0.0722	-0.1711	0.8927	-7.2630	-0.0030	0.8796	-2.3695		
40	0.02	10.45	0.0837	-0.1752	0.7020	-7.0420	0.0010	0.8352	-2.0929		
41	0.01	11.25	0.0829	-0.2400	0.6275	-6.7648	-0.0070	0.7921	-2.8958		
42	0.01	12.05	0.0862	-0.2267	0.4740	-6.5449	-0.0090	0.7411	-2.6297		
43	0.01	12.80	0.0700	-0.1590	0.3219	-6.2548	-0.0040	0.6978	-2.2714		
44	0.01	13.58	0.0891	-0.1917	0.1406	-6.0001	-0.0140	0.6388	-2.1520		
45	0.01	14.35	0.0791	-0.1591	0.0204	-5.7238	-0.0130	0.6129	-2.1190		
46	0.02	15.10	0.0817	-0.1524	-0.1959	-5.5300	-0.0230	0.5822	-1.8651		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	78	1.01	1.7	0.0	82WOF16	0.0	30	0	30	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	15.89	0.1129	-0.2530	-0.3862	-3.2165	-0.0370	0.5424	-2.2415
48	0.01	16.69	0.0969	-0.2406	-0.6107	-4.8742	-0.0380	0.4986	-2.4836
49	0.02	17.52	0.0914	-0.1599	-0.6567	-4.7579	-0.0320	0.4877	-1.7501
50	0.01	18.37	0.0425	-0.1155	-0.9623	-4.4251	-0.0180	0.4339	-2.7176
51	0.01	19.14	0.0449	-0.1568	-1.2460	-4.0388	-0.0160	0.3742	-3.4935

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 78 1.01 1.7			0.0	B2WOF16	0.0	30	0	30	0	FIXED \		
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.0	-19.94	0.0221	-0.0029	0.7901	-0.1312	35.7495	0.0984	0.0092	0.0086	0.0935	0.0873
2	0.02	-19.57	0.0367	-0.0031	0.7943	-0.1010	25.8739	0.0856	0.0058	-0.0002	0.0678	-0.0021
3	0.0	-18.79	0.0221	-0.0010	0.7796	-0.0452	35.2744	0.0952	0.0096	0.0105	0.1008	0.1105
4	0.01	-17.97	0.0170	0.0009	0.7797	0.0529	45.8626	0.0749	0.0040	-0.0006	0.0534	-0.0086
5	0.01	-17.15	0.0231	0.0026	0.7847	0.1126	33.9696	0.0725	0.0035	-0.0016	0.0483	-0.0226
6	0.01	-16.31	0.0081	0.0051	0.7824	0.6296	96.5925	0.0757	0.0037	0.0021	0.0489	0.0281
7	0.01	-15.52	0.0050	0.0070	0.7755	1.4000	155.0932	0.0619	0.0014	-0.0089	0.0226	-0.1434
8	0.01	-14.69	-0.0087	0.0098	0.7645	-1.1264	-87.8737	0.0528	0.0005	-0.0161	0.0095	-0.3050
9	0.01	-13.90	-0.0107	0.0115	0.7581	-1.0748	-70.8537	0.0550	0.0008	-0.0140	0.0145	-0.2541
10	0.01	-13.03	-0.0269	0.0133	0.7507	-0.4944	-27.9084	0.0569	0.0017	-0.0107	0.0299	-0.1888
11	0.01	-12.28	-0.0335	0.0143	0.7466	-0.4269	-22.2877	0.0567	-0.0005	-0.0094	-0.0088	-0.1659
12	0.01	-11.49	-0.0450	0.0157	0.7410	-0.3489	-16.4668	0.0495	0.0	-0.0134	0.0	-0.2708
13	0.01	-10.76	-0.0475	0.0168	0.7360	-0.3537	-15.4942	0.0509	-0.0003	-0.0136	-0.0059	-0.2680
14	0.01	-10.01	-0.0482	0.0176	0.7355	-0.3651	-15.2601	0.0509	-0.0003	-0.0138	-0.0059	-0.2719
15	0.01	-9.23	-0.0464	0.0183	0.7357	-0.3944	-15.8564	0.0511	-0.0008	-0.0110	-0.0140	-0.1922
16	0.01	-8.43	-0.0380	0.0183	0.7432	-0.4816	-19.5589	0.0526	0.0	-0.0152	0.0	-0.2885
17	0.01	-7.68	-0.0310	0.0184	0.7518	-0.5935	-24.2506	0.0565	-0.0006	-0.0145	-0.0106	-0.2562
18	0.01	-6.90	-0.0302	0.0191	0.7489	-0.6325	-24.7992	0.0588	-0.0002	-0.0135	-0.0034	-0.2297
19	0.01	-6.08	-0.0171	0.0187	0.7586	-1.0936	-44.3627	0.0685	-0.0002	-0.0085	-0.0029	-0.1237
20	0.01	-5.32	-0.0073	0.0185	0.7636	-2.5342	-104.5983	0.0619	-0.0005	-0.0091	-0.0081	-0.1466
21	0.01	-4.56	-0.0109	0.0196	0.7563	-1.7982	-69.3824	0.0565	-0.0002	-0.0098	-0.0035	-0.1730
22	0.01	-3.79	-0.0047	0.0193	0.7569	-4.1064	-161.0498	0.0587	-0.0009	-0.0080	0.0153	-0.1370
23	0.01	-2.94	-0.0103	0.0200	0.7537	-1.9417	-73.1716	0.0523	0.0005	-0.0093	0.0096	-0.1773
24	0.01	-2.18	-0.0066	0.0209	0.7502	-3.1667	-113.6668	0.0490	-0.0003	-0.0124	-0.0061	-0.2525
25	0.01	-1.38	-0.0216	0.0221	0.7403	-1.0231	-34.2733	0.0572	0.0014	-0.0075	0.0245	-0.1318
26	0.01	-0.56	-0.0390	0.0236	0.7305	-0.6051	-18.7309	0.0585	0.0018	-0.0072	0.0308	-0.1232
27	0.01	0.20	-0.0555	0.0246	0.7203	-0.4432	-12.9785	0.0538	0.0007	-0.0097	0.0130	-0.1798
28	0.01	0.97	-0.0730	0.0259	0.7090	-0.3548	-9.7120	0.0570	0.0005	-0.0108	0.0088	-0.1896
29	0.01	1.74	-0.0982	0.0266	0.6914	-0.2709	-7.0405	0.0537	0.0013	-0.0082	0.0242	-0.1528
30	0.01	2.49	-0.1169	0.0262	0.6780	-0.2241	-5.8002	0.0554	0.0010	-0.0093	0.0181	-0.1686
31	0.01	3.27	-0.1365	0.0277	0.6634	-0.2029	-4.8602	0.0557	0.0011	-0.0104	0.0197	-0.1874
32	0.01	4.02	-0.1463	0.0280	0.6524	-0.1996	-4.6504	0.0542	0.0009	-0.0097	0.0166	-0.1797
33	0.01	4.85	-0.1607	0.0313	0.6363	-0.1948	-3.9593	0.0643	0.0023	-0.0078	0.0358	-0.1209
34	0.01	5.64	-0.1802	0.0365	0.6065	-0.2026	-3.3677	0.0579	0.0012	-0.0101	0.0207	-0.1746
35	0.01	6.46	-0.1989	0.0401	0.5756	-0.2016	-2.8940	0.0661	0.0026	-0.0071	0.0393	-0.1070
36	0.01	7.22	-0.2224	0.0824	0.6139	-0.3705	-2.7603	0.0671	0.0024	-0.0064	0.0358	-0.0960
37	0.01	8.01	-0.2456	0.0835	0.5835	-0.3400	-2.3757	0.0694	0.0029	-0.0060	0.0418	-0.0861
38	0.01	8.84	-0.2585	0.0812	0.5634	-0.3141	-2.1794	0.0671	0.0020	-0.0081	0.0298	-0.1213
39	0.01	9.64	-0.2784	0.0769	0.5449	-0.2762	-1.9574	0.0686	0.0024	-0.0083	0.0350	-0.1216
40	0.02	10.45	-0.2932	0.0712	0.5215	-0.2428	-1.7787	0.0714	0.0027	-0.0069	0.0378	-0.0968
41	0.01	11.25	-0.3214	0.0684	0.4973	-0.2128	-1.5473	0.0717	0.0029	-0.0069	0.0404	-0.0964
42	0.01	12.05	-0.3602	0.0671	0.4722	-0.1863	-1.3109	0.0730	0.0038	-0.0056	0.0521	-0.0764
43	0.01	12.80	-0.3908	0.0650	0.4450	-0.1663	-1.1386	0.0694	0.0032	-0.0069	0.0461	-0.0991
44	0.01	13.58	-0.4224	0.0628	0.4136	-0.1487	-0.9790	0.0799	0.0047	-0.0050	0.0588	-0.0623
45	0.01	14.35	-0.4569	0.0591	0.3890	-0.1293	-0.8513	0.0805	0.0040	-0.0061	0.0497	-0.0755
46	0.02	15.10	-0.4980	0.0541	0.3548	-0.1086	-0.7124	0.0779	0.0035	-0.0061	0.0449	-0.0789

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	78	1.01	1.7	0.0	B2WOF16	0.0	30	0	30	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.01	15.89	-0.5346	0.0494	0.3264	-0.0924	-0.6105	0.0822	0.0052	-0.0016	0.0633	-0.0196	
48	0.01	16.69	-0.5730	0.0440	0.2918	-0.0768	-0.5092	0.0810	0.0049	-0.0031	0.0605	-0.0384	
49	0.02	17.52	-0.5974	0.0396	0.2622	-0.0663	-0.4390	0.0812	0.0045	-0.0047	0.0554	-0.0584	
50	0.01	18.37	-0.6398	0.0352	0.2307	-0.0550	-0.3606	0.0722	0.0036	-0.0069	0.0499	-0.0961	
51	0.01	19.14	-0.6802	0.0290	0.1990	-0.0426	-0.2926	0.0617	0.0059	-0.0023	0.0722	-0.0279	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 78 1.01 1.7			U.O	B2WOF16	0.0	30	0	30	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	0.0	-19.94	1.7174	0.0350	0.6345	0.0204	0.3694	-0.1198	-0.0133	0.0115	0.1110	-0.0958
2	0.02	-19.57	1.7073	0.0352	0.6383	0.0206	0.3739	-0.1187	-0.0135	0.0075	0.1137	-0.0636
3	0.0	-18.79	1.6672	0.0371	0.6244	0.0220	0.3701	-0.1082	-0.0133	0.0082	0.1229	-0.0762
4	0.01	-17.97	1.6655	0.0386	0.6255	0.0232	0.3758	-0.1192	-0.0135	0.0095	0.1133	-0.0795
5	0.01	-17.15	1.6797	0.0407	0.6288	0.0242	0.3744	-0.1201	-0.0125	0.0121	0.1041	-0.1006
6	0.01	-16.31	1.6655	0.0426	0.6199	0.0256	0.3722	-0.1089	-0.0125	0.0108	0.1148	-0.0993
7	0.01	-15.52	1.6591	0.0449	0.6166	0.0271	0.3717	-0.1069	-0.0124	0.0109	0.1139	-0.1002
8	0.01	-14.69	1.6285	0.0472	0.6094	0.0290	0.3742	-0.1025	-0.0112	0.0132	0.1093	-0.1292
9	0.01	-13.90	1.6181	0.0493	0.6074	0.0305	0.3754	-0.0849	-0.0094	0.0138	0.1107	-0.1627
10	0.01	-13.03	1.5995	0.0508	0.5963	0.0318	0.3728	-0.1025	-0.0108	0.0132	0.1054	-0.1292
11	0.01	-12.28	1.5853	0.0526	0.5905	0.0332	0.3725	-0.1022	-0.0114	0.0126	0.1115	-0.1237
12	0.01	-11.49	1.5726	0.0536	0.5887	0.0341	0.3744	-0.0957	-0.0100	0.0144	0.1045	-0.1506
13	0.01	-10.76	1.5576	0.0544	0.5844	0.0349	0.3752	-0.0957	-0.0100	0.0144	0.1045	-0.1506
14	0.01	-10.01	1.5591	0.0556	0.5816	0.0357	0.3730	-0.0928	-0.0092	0.0166	0.0991	-0.1786
15	0.01	-9.23	1.5574	0.0557	0.5778	0.0358	0.3710	-0.0928	-0.0092	0.0166	0.0991	-0.1786
16	0.01	-8.43	1.5802	0.0554	0.5878	0.0351	0.3720	-0.0960	-0.0094	0.0151	0.0979	-0.1574
17	0.01	-7.68	1.5767	0.0559	0.5897	0.0355	0.3740	-0.0894	-0.0086	0.0174	0.0962	-0.1947
18	0.01	-6.90	1.5852	0.0566	0.5939	0.0357	0.3747	-0.0893	-0.0083	0.0174	0.0929	-0.1953
19	0.01	-6.08	1.5854	0.0573	0.5939	0.0361	0.3746	-0.0859	-0.0073	0.0177	0.0850	-0.2058
20	0.01	-5.32	1.5930	0.0575	0.5908	0.0361	0.3709	-0.0901	-0.0071	0.0201	0.0788	-0.2228
21	0.01	-4.56	1.5894	0.0577	0.5943	0.0363	0.3739	-0.0827	-0.0065	0.0191	0.0786	-0.2315
22	0.01	-3.79	1.6102	0.0579	0.6011	0.0360	0.3733	-0.0895	-0.0071	0.0181	0.0793	-0.2020
23	0.01	-2.94	1.5977	0.0580	0.5986	0.0363	0.3746	-0.0830	-0.0061	0.0198	0.0735	-0.2391
24	0.01	-2.18	1.6016	0.0580	0.5975	0.0362	0.3731	-0.0828	-0.0063	0.0192	0.0761	-0.2320
25	0.01	-1.38	1.5840	0.0591	0.5843	0.0373	0.3689	-0.0839	-0.0045	0.0224	0.0536	-0.2675
26	0.01	-0.56	1.5661	0.0601	0.5760	0.0384	0.3678	-0.0731	-0.0043	0.0218	0.0588	-0.2988
27	0.01	0.20	1.5444	0.0611	0.5671	0.0396	0.3672	-0.0722	-0.0053	0.0186	0.0734	-0.2582
28	0.01	0.97	1.5380	0.0610	0.5572	0.0397	0.3623	-0.0832	-0.0060	0.0193	0.0721	-0.2317
29	0.01	1.74	1.4992	0.0627	0.5459	0.0418	0.3641	-0.0806	-0.0046	0.0215	0.0571	-0.2673
30	0.01	2.49	1.4733	0.0614	0.5301	0.0417	0.3598	-0.0836	-0.0054	0.0193	0.0646	-0.2314
31	0.01	3.27	1.4479	0.0609	0.5194	0.0421	0.3587	-0.0898	-0.0040	0.0209	0.0573	-0.3000
32	0.01	4.02	1.4255	0.0609	0.5159	0.0427	0.3619	-0.0775	-0.0040	0.0231	0.0516	-0.2978
33	0.01	4.85	1.3982	0.0643	0.5055	0.0460	0.3615	-0.0696	-0.0040	0.0209	0.0575	-0.3004
34	0.01	5.64	1.3384	0.0668	0.4868	0.0499	0.3637	-0.0769	-0.0043	0.0229	0.0559	-0.2975
35	0.01	6.46	1.2786	0.0686	0.4639	0.0537	0.3629	-0.0696	-0.0034	0.0238	0.0489	-0.3421
36	0.01	7.22	1.2194	0.0756	0.4384	0.0620	0.3595	-0.0763	-0.0033	0.0227	0.0433	-0.2972
37	0.01	8.01	1.1702	0.0844	0.4193	0.0721	0.3583	-0.0856	-0.0032	0.0238	0.0488	-0.3634
38	0.01	8.84	1.2012	0.1133	0.4417	0.0943	0.3677	-0.0757	-0.0039	0.0226	0.0515	-0.2982
39	0.01	9.64	1.1890	0.1035	0.4292	0.0870	0.3610	-0.0791	-0.0031	0.0210	0.0392	-0.2660
40	0.02	10.45	1.1387	0.1011	0.4024	0.0888	0.3534	-0.0797	-0.0021	0.0212	0.0263	-0.2665
41	0.01	11.25	1.0981	0.1003	0.3873	0.0913	0.3527	-0.0713	-0.0039	0.0158	0.0547	-0.2222
42	0.01	12.05	1.0407	0.0987	0.3626	0.0948	0.3484	-0.0898	-0.0046	0.0175	0.0512	-0.1946
43	0.01	12.80	0.9888	0.0945	0.3326	0.0956	0.3363	-0.0963	-0.0062	0.0150	0.0644	-0.1559
44	0.01	13.58	0.9312	0.0920	0.3076	0.0988	0.3303	-0.1055	-0.0100	0.0103	0.0948	-0.0981
45	0.01	14.35	0.8584	0.0868	0.2876	0.1011	0.3351	-0.0966	-0.0066	0.0144	0.0683	-0.1492
46	0.02	15.10	0.8028	0.0810	0.2611	0.1009	0.3252	-0.1159	-0.0110	0.0072	0.0949	-0.0620

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 78 1.01 1.7 0.0 82NOF16 0.0 30 0 30 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	15.89	0.7543	0.0758	0.2376	0.1005	0.3151	-0.1255	-0.0122	0.0038	0.0972	-0.0301
48	0.01	16.69	0.6853	0.0680	0.2052	0.0592	0.2994	-0.1106	-0.0110	0.0020	0.0995	-0.0185
49	0.02	17.52	0.6134	0.0613	0.1842	0.0999	0.3003	-0.1054	-0.0092	0.0098	0.0873	-0.0928
50	0.01	18.37	0.5585	0.0543	0.1546	0.0972	0.2768	-0.1085	-0.0093	0.0082	0.0857	-0.0760
51	0.01	19.14	0.4905	0.0461	0.1230	0.0940	0.2508	-0.1149	-0.0109	0.0070	0.0949	-0.0610

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	79	1.05 1.7	0.0	B2WOF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP	
1	0.01	-20.06	0.1517	-0.4643	4.4130	-9.4108	-0.0230	1.3183	-3.0612	
2	0.0	-19.59	0.1249	-0.5118	4.3166	-9.4131	-0.0170	1.3111	-3.9404	
3	0.0	-18.80	0.1418	-0.4935	4.2438	-9.4679	-0.0170	1.3075	-3.4804	
4	0.01	-17.44	0.1292	-0.3718	4.0064	-9.3724	-0.0110	1.2840	-2.8783	
5	0.01	-17.10	0.1001	-0.3181	3.9801	-9.4986	-0.0010	1.2737	-3.1782	
6	0.01	-16.28	0.1234	-0.3597	3.7687	-9.4726	-0.0040	1.2841	-2.9154	
7	0.0	-15.51	0.1103	-0.3824	3.5960	-9.4169	0.0070	1.2710	-3.4671	
8	0.01	-14.66	0.1556	-0.3798	3.5395	-9.4403	0.0180	1.2545	-2.4411	
9	0.01	-13.87	0.1246	-0.3194	3.4442	-9.3724	0.0140	1.2290	-2.5637	
10	0.01	-13.05	0.0851	-0.3011	3.2457	-9.3073	0.0210	1.2336	-3.5387	
11	0.01	-12.26	0.1106	-0.2728	3.1775	-9.2378	0.0170	1.2143	-2.4669	
12	0.01	-11.50	0.1091	-0.3237	3.0627	-9.1681	0.0230	1.1885	-2.9674	
13	0.01	-10.78	0.1204	-0.3105	2.9176	-9.1410	0.0240	1.1943	-2.5794	
14	0.01	-10.02	0.1102	-0.3092	2.8984	-9.1771	0.0230	1.1585	-2.8065	
15	0.01	-9.26	0.1098	-0.2977	2.7342	-9.0723	0.0240	1.1741	-2.7115	
16	0.01	-8.44	0.1070	-0.3258	2.7511	-9.2429	0.0320	1.1783	-3.0449	
17	0.01	-7.69	0.1114	-0.3509	2.7216	-9.2936	0.0350	1.1785	-3.1504	
18	0.01	-6.85	0.1167	-0.3723	2.5956	-9.3050	0.0340	1.1747	-3.1909	
19	0.01	-6.11	0.0953	-0.2994	2.5559	-9.5124	0.0280	1.2084	-3.1419	
20	0.01	-5.32	0.0920	-0.2858	2.4957	-9.5801	0.0310	1.2140	-3.1065	
21	0.01	-4.57	0.1165	-0.3561	2.4565	-9.6868	0.0320	1.2173	-3.0567	
22	0.01	-3.77	0.1087	-0.2991	2.4231	-9.7245	0.0240	1.2343	-2.7523	
23	0.01	-2.96	0.0784	-0.2637	2.3617	-9.7145	0.0250	1.2272	-3.3643	
24	0.01	-2.21	0.0889	-0.2964	2.2522	-9.6402	0.0280	1.1999	-3.3348	
25	0.01	-1.39	0.0854	-0.2645	2.3005	-9.6968	0.0220	1.1893	-3.0979	
26	0.01	-0.60	0.1010	-0.3014	2.1024	-9.3865	0.0220	1.1645	-2.9842	
27	0.01	0.16	0.0987	-0.2801	2.0021	-9.2581	0.0240	1.1473	-2.8387	
28	0.01	0.92	0.1012	-0.3006	1.9627	-9.1270	0.0240	1.1212	-2.9711	
29	0.01	1.71	0.1038	-0.3183	1.8918	-8.9376	0.0200	1.0984	-3.0667	
30	0.01	2.46	0.1008	-0.3321	1.7253	-8.6696	0.0180	1.0521	-3.2948	
31	0.01	3.23	0.1084	-0.3387	1.6209	-8.5064	0.0130	1.0234	-3.1251	
32	0.01	4.00	0.0951	-0.2821	1.5887	-8.2254	0.0150	0.9836	-2.9668	
33	0.01	4.83	0.1081	-0.3363	1.5024	-8.1156	0.0080	0.9448	-3.0559	
34	0.01	5.62	0.0951	-0.2621	1.3848	-7.7830	0.0100	0.9296	-2.7565	
35	0.01	6.45	0.0934	-0.2777	1.3377	-7.8890	0.0500	0.9633	-2.9739	
36	0.01	7.18	0.1074	-0.3063	1.2282	-8.0077	-0.0050	1.0149	-2.8525	
37	0.01	8.02	0.1169	-0.3226	1.0948	-7.8078	0.0050	1.0203	-2.7601	
38	0.01	8.81	0.0723	-0.2392	1.0323	-7.5754	0.0080	1.0145	-3.3087	
39	0.01	9.60	0.0712	-0.2097	0.8499	-7.2880	0.0040	0.9847	-2.9449	
40	0.01	10.43	0.0931	-0.2073	0.7196	-7.0477	0.0040	0.9480	-2.2271	
41	0.01	11.20	0.1080	-0.2552	0.5967	-6.7726	0.0030	0.9085	-2.3630	
42	0.01	12.01	0.0978	-0.2469	0.3988	-6.4516	-0.0050	0.8427	-2.5247	
43	0.01	12.77	0.0875	-0.1905	0.3409	-6.3014	-0.0020	0.7729	-2.1771	
44	0.01	13.53	0.0955	-0.2147	0.0568	-5.9577	-0.0070	0.7103	-2.2482	
45	0.01	14.32	0.1130	-0.3022	-0.0312	-5.6886	-0.0210	0.6611	-2.6743	
46	0.01	15.07	0.0867	-0.2653	-0.1860	-5.4429	-0.0270	0.6262	-3.0609	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 79 1.05 1.7 0.0 B2M0F16 0.0 DEL1 DEL2 DEL3 DEL4 TRANSITION									
0 30 0 30 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	15.84	0.0736	-0.2470	-0.4218	-5.1707	-0.0240	0.6151	-3.3565
48	0.01	16.65	0.0714	-0.1949	-0.6147	-4.8176	-0.0290	0.6138	-2.7305
49	0.01	17.44	0.0463	-0.1058	-0.8346	-4.4848	-0.0070	0.5893	-2.2855
50	0.02	18.30	0.0842	-0.1519	-1.1115	-4.1962	-0.0240	0.5453	-1.8038
51	0.02	19.10	0.0475	-0.0485	-1.1957	-3.9742	-0.0090	0.5143	-1.0211
52	0.01	19.93	-0.0138	0.0333	-1.4500	-3.8013	0.0040	0.4520	-2.4145

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	79	1.05 1.7	0.0	82WOF16	0.0	30	0	30	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	-20.06	0.0836	-0.0062	0.8317	-0.0742	9.9480	0.1022	0.0113	0.0098	0.1106	0.0954
2	0.0	-19.59	0.0768	-0.0053	0.8275	-0.0690	10.7798	0.0994	0.0092	0.0052	0.0926	0.0525
3	0.0	-18.80	0.0755	-0.0036	0.8270	-0.0477	10.9531	0.1016	0.0105	0.0058	0.1033	0.0566
4	0.01	-17.94	0.0613	-0.0019	0.8176	-0.0310	13.3381	0.0893	0.0060	-0.0023	0.0672	-0.0262
5	0.01	-17.10	0.0557	0.0001	0.8129	0.0018	14.5935	0.0753	0.0035	-0.0092	0.0465	-0.1223
6	0.01	-16.28	0.0464	0.0019	0.8066	0.0409	17.3828	0.0800	0.0049	-0.0072	0.0612	-0.0905
7	0.0	-15.51	0.0303	0.0043	0.7966	0.1419	26.2903	0.0686	0.0029	-0.0140	0.0423	-0.2047
8	0.01	-14.66	0.0272	0.0060	0.7907	0.2206	29.0685	0.0584	0.0016	-0.0200	0.0274	-0.3432
9	0.01	-13.87	0.0073	0.0083	0.7802	1.1370	106.8812	0.0602	0.0023	-0.0169	0.0382	-0.2814
10	0.01	-13.05	0.0014	0.0096	0.7745	6.8571	553.1902	0.0544	0.0013	-0.0197	0.0239	-0.3616
11	0.01	-12.26	-0.0027	0.0110	0.7639	-4.0741	282.9260	0.0590	0.0007	-0.0169	0.0119	-0.2871
12	0.01	-11.50	-0.0202	0.0129	0.7526	-0.6386	-37.2559	0.0537	0.0013	-0.0165	0.0242	-0.3074
13	0.01	-10.78	-0.0293	0.0141	0.7518	-0.4812	-25.6600	0.0581	0.0007	-0.0178	0.0120	-0.3071
14	0.01	-10.02	-0.0452	0.0152	0.7432	-0.3363	-16.4433	0.0568	0.0003	-0.0119	0.0053	-0.2090
15	0.01	-9.26	-0.0456	0.0160	0.7414	-0.3509	-16.2589	0.0586	0.0	-0.0135	0.0	-0.2299
16	0.01	-8.44	-0.0413	0.0168	0.7431	-0.4068	-17.9937	0.0627	-0.0003	-0.0137	-0.0048	-0.2186
17	0.01	-7.69	-0.0452	0.0179	0.7400	-0.3960	-16.3725	0.0629	-0.0002	-0.0147	-0.0032	-0.2344
18	0.01	-6.85	-0.0404	0.0179	0.7429	-0.4431	-18.3895	0.0646	0.0	-0.0107	0.0	-0.1652
19	0.01	-6.11	-0.0274	0.0179	0.7524	-0.6533	-27.4588	0.0624	-0.0002	-0.0123	-0.0032	-0.1972
20	0.01	-5.32	-0.0204	0.0185	0.7509	-0.9069	-36.8389	0.0532	-0.0012	-0.0177	-0.0226	-0.3322
21	0.01	-4.57	-0.0077	0.0178	0.7580	-2.3117	-98.4460	0.0681	0.0003	-0.0087	0.0044	-0.1279
22	0.01	-3.77	-0.0019	0.0179	0.7644	-9.4211	-402.2983	0.0569	-0.0002	-0.0116	-0.0035	-0.2046
23	0.01	-2.96	-0.0134	0.0190	0.7601	-1.4179	-56.7265	0.0504	-0.0018	-0.0172	-0.0357	-0.3414
24	0.01	-2.21	-0.0178	0.0192	0.7555	-1.0787	-42.4421	0.0523	-0.0009	-0.0143	-0.0172	-0.2729
25	0.01	-1.39	-0.0168	0.0205	0.7445	-1.2202	-44.3156	0.0496	-0.0006	-0.0142	-0.0121	-0.2857
26	0.01	-0.60	-0.0317	0.0213	0.7341	-0.6719	-23.1589	0.0566	0.0004	-0.0108	0.0071	-0.1915
27	0.01	0.16	-0.0434	0.0212	0.7242	-0.4885	-16.6875	0.0512	-0.0012	-0.0149	-0.0234	-0.2918
28	0.01	0.92	-0.0610	0.0197	0.7105	-0.3230	-11.6471	0.0614	0.0012	-0.0090	0.0195	-0.1472
29	0.01	1.71	-0.0843	0.0207	0.6977	-0.2456	-8.2765	0.0638	0.0016	-0.0080	0.0251	-0.1260
30	0.01	2.46	-0.1129	0.0240	0.6783	-0.2126	-6.0078	0.0702	0.0026	-0.0068	0.0370	-0.0970
31	0.01	3.23	-0.1378	0.0254	0.6574	-0.1843	-4.7706	0.0617	0.0015	-0.0090	0.0243	-0.1465
32	0.01	4.00	-0.1554	0.0267	0.6381	-0.1718	-4.1063	0.0644	0.0017	-0.0083	0.0264	-0.1295
33	0.01	4.83	-0.1792	0.0306	0.6130	-0.1708	-3.4207	0.0711	0.0022	-0.0086	0.0309	-0.1211
34	0.01	5.62	-0.1934	0.0354	0.5903	-0.1830	-3.0520	0.0610	0.0009	-0.0105	0.0148	-0.1717
35	0.01	6.45	-0.2258	0.0777	0.6352	-0.3441	-2.8129	0.0649	0.0012	-0.0096	0.0174	-0.1399
36	0.01	7.18	-0.2400	0.0755	0.6211	-0.3146	-2.5880	0.0823	0.0035	-0.0051	0.0425	-0.0617
37	0.01	8.02	-0.2510	0.0656	0.6021	-0.2614	-2.5987	0.0821	0.0033	-0.0054	0.0402	-0.0663
38	0.01	8.81	-0.2728	0.0617	0.5763	-0.2262	-2.1125	0.0715	0.0022	-0.0070	0.0308	-0.0976
39	0.01	9.60	-0.2975	0.0597	0.5490	-0.2007	-1.8453	0.0681	0.0012	-0.0095	0.0176	-0.1396
40	0.01	10.43	-0.3238	0.0576	0.5228	-0.1779	-1.6146	0.0658	0.0009	-0.0110	0.0137	-0.1668
41	0.01	11.20	-0.3554	0.0551	0.4941	-0.1550	-1.3902	0.0697	0.0010	-0.0107	0.0143	-0.1532
42	0.01	12.01	-0.3875	0.0532	0.4607	-0.1373	-1.1888	0.0770	0.0019	-0.0083	0.0247	-0.1083
43	0.01	12.77	-0.4164	0.0526	0.4350	-0.1263	-1.0448	0.0735	0.0015	-0.0094	0.0204	-0.1280
44	0.01	13.53	-0.4547	0.0495	0.4004	-0.1089	-0.8806	0.0836	0.0031	-0.0066	0.0371	-0.0795
45	0.01	14.32	-0.4798	0.0470	0.3721	-0.0980	-0.7756	0.0871	0.0039	-0.0039	0.0448	-0.0445
46	0.01	15.07	-0.5122	0.0419	0.3404	-0.0818	-0.6646	0.0885	0.0037	-0.0036	0.0418	-0.0408

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 79 1.05 1.7 0.0 02WOF16 0.0 30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.84	-0.5433	0.0349	0.3082	-0.0642	-0.5672	0.0951	0.0037	-0.0031	0.0389	-0.0327
48	0.01	16.65	-0.5856	0.0274	0.2720	-0.0468	-0.4644	0.0897	0.0029	-0.0028	0.0323	-0.0313
49	0.01	17.44	-0.6069	0.0237	0.2510	-0.0391	-0.4135	0.0813	0.0015	-0.0077	0.0185	-0.0948
50	0.02	18.30	-0.6503	0.0195	0.2180	-0.0300	-0.3352	0.0958	0.0037	-0.0033	0.0386	-0.0342
51	0.02	19.10	-0.6804	0.0163	0.1896	-0.0240	-0.2786	0.0776	0.0010	-0.0106	0.0129	-0.1371
52	0.01	19.93	-0.7177	0.0114	0.1629	-0.0159	-0.2269	0.0772	0.0016	-0.0096	0.0207	-0.1240

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 79 1.03 1.7			0.0	02WOF16	0.0	30	0	30	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCFF3	CNF4	CH4	CB4	XCFF4	YCFF4
1	0.01	-20.06	1.8142	0.0332	0.6754	0.0183	0.3723	-0.1249	-0.0150	0.0085	0.1201	-0.0679
2	0.0	-19.59	1.8119	0.0340	0.6691	0.0188	0.3693	-0.1162	-0.0128	0.0142	0.1102	-0.1220
3	0.0	-18.80	1.8018	0.0347	0.6710	0.0193	0.3724	-0.1188	-0.0137	0.0121	0.1153	-0.1020
4	0.01	-17.94	1.7735	0.0370	0.6584	0.0209	0.3712	-0.1188	-0.0135	0.0121	0.1136	-0.1020
5	0.01	-17.10	1.7723	0.0392	0.6547	0.0221	0.3694	-0.1158	-0.0129	0.0136	0.1114	-0.1176
6	0.01	-16.28	1.7576	0.0410	0.6513	0.0233	0.3705	-0.1152	-0.0135	0.0117	0.1172	-0.1017
7	0.0	-15.51	1.7353	0.0428	0.6414	0.0247	0.3696	-0.1020	-0.0116	0.0132	0.1137	-0.1295
8	0.01	-14.66	1.7254	0.0446	0.6348	0.0258	0.3679	-0.0957	-0.0108	0.0149	0.1129	-0.1558
9	0.01	-13.87	1.6877	0.0461	0.6239	0.0273	0.3697	-0.0990	-0.0116	0.0147	0.1172	-0.1486
10	0.01	-13.05	1.6705	0.0478	0.6187	0.0286	0.3704	-0.0957	-0.0110	0.0149	0.1149	-0.1558
11	0.01	-12.26	1.6430	0.0494	0.6073	0.0301	0.3696	-0.0991	-0.0110	0.0147	0.1110	-0.1481
12	0.01	-11.50	1.6149	0.0510	0.5948	0.0316	0.3683	-0.1003	-0.0100	0.0185	0.0997	-0.1842
13	0.01	-10.78	1.6024	0.0523	0.5891	0.0326	0.3677	-0.1038	-0.0102	0.0177	0.0983	-0.1706
14	0.01	-10.02	1.5782	0.0529	0.5820	0.0335	0.3688	-0.1007	-0.0097	0.0185	0.0963	-0.1842
15	0.01	-9.26	1.5646	0.0540	0.5783	0.0344	0.3684	-0.1041	-0.0101	0.0177	0.0970	-0.1701
16	0.01	-8.44	1.5738	0.0544	0.5767	0.0346	0.3664	-0.1011	-0.0097	0.0186	0.0959	-0.1841
17	0.01	-7.69	1.5722	0.0545	0.5730	0.0347	0.3644	-0.0949	-0.0083	0.0210	0.0875	-0.2211
18	0.01	-6.85	1.5673	0.0553	0.5767	0.0353	0.3680	-0.0912	-0.0081	0.0199	0.0888	-0.2183
19	0.01	-6.11	1.5914	0.0557	0.5894	0.0350	0.3704	-0.0948	-0.0081	0.0203	0.0854	-0.2143
20	0.01	-5.32	1.6140	0.0564	0.5913	0.0349	0.3664	-0.1011	-0.0093	0.0186	0.0920	-0.1841
21	0.01	-4.57	1.6101	0.0571	0.5915	0.0355	0.3674	-0.0920	-0.0070	0.0224	0.0761	-0.2440
22	0.01	-3.77	1.6280	0.0567	0.6076	0.0348	0.3732	-0.0906	-0.0083	0.0160	0.0916	-0.1988
23	0.01	-2.96	1.6264	0.0566	0.6038	0.0348	0.3713	-0.1117	-0.0097	0.0199	0.0868	-0.1780
24	0.01	-2.21	1.6152	0.0569	0.5994	0.0352	0.3711	-0.0843	-0.0070	0.0197	0.0830	-0.2338
25	0.01	-1.39	1.6035	0.0575	0.5962	0.0359	0.3718	-0.0842	-0.0071	0.0197	0.0843	-0.2345
26	0.01	-0.60	1.5702	0.0571	0.5836	0.0364	0.3717	-0.0957	-0.0062	0.0235	0.0648	-0.2457
27	0.01	0.16	1.5705	0.0578	0.5760	0.0368	0.3668	-0.0843	-0.0070	0.0197	0.0830	-0.2338
28	0.01	0.92	1.5458	0.0563	0.5617	0.0364	0.3634	-0.0891	-0.0050	0.0239	0.0561	-0.2684
29	0.01	1.71	1.5088	0.0563	0.5495	0.0373	0.3642	-0.0856	-0.0044	0.0236	0.0514	-0.2754
30	0.01	2.46	1.4781	0.0571	0.5336	0.0366	0.3606	-0.0864	-0.0043	0.0256	0.0498	-0.2964
31	0.01	3.23	1.4479	0.0584	0.5191	0.0403	0.3585	-0.0759	-0.0033	0.0249	0.0435	-0.3282
32	0.01	4.00	1.4113	0.0586	0.5015	0.0415	0.3593	-0.0868	-0.0043	0.0257	0.0495	-0.2958
33	0.01	4.83	1.3623	0.0615	0.4880	0.0451	0.3582	-0.0837	-0.0039	0.0272	0.0466	-0.3251
34	0.01	5.62	1.3164	0.0655	0.4683	0.0498	0.3558	-0.0823	-0.0052	0.0221	0.0632	-0.2682
35	0.01	6.45	1.2781	0.0724	0.4558	0.0566	0.3566	-0.0755	-0.0051	0.0225	0.0675	-0.2986
36	0.01	7.18	1.3585	0.1045	0.4951	0.0768	0.3644	-0.0765	-0.0043	0.0264	0.0582	-0.3452
37	0.01	8.02	1.3125	0.0998	0.4725	0.0760	0.3603	-0.0732	-0.0034	0.0278	0.0464	-0.3799
38	0.01	8.81	1.2459	0.0948	0.4487	0.0761	0.3601	-0.0823	-0.0031	0.0232	0.0377	-0.2816
39	0.01	9.60	1.2081	0.0914	0.4245	0.0757	0.3513	-0.0818	-0.0031	0.0218	0.0379	-0.2670
40	0.01	10.43	1.1540	0.0880	0.4011	0.0763	0.3476	-0.0845	-0.0040	0.0196	0.0473	-0.2325
41	0.01	11.20	1.0919	0.0843	0.3774	0.0772	0.3457	-0.0816	-0.0036	0.0218	0.0466	-0.2673
42	0.01	12.01	1.0358	0.0817	0.3502	0.0789	0.3381	-0.0844	-0.0050	0.0197	0.0592	-0.2331
43	0.01	12.77	0.9786	0.0801	0.3232	0.0819	0.3303	-0.0980	-0.0064	0.0182	0.0653	-0.1862
44	0.01	13.53	0.9232	0.0764	0.2945	0.0828	0.3190	-0.0912	-0.0070	0.0181	0.0768	-0.1986
45	0.01	14.32	0.8641	0.0741	0.2763	0.0858	0.3198	-0.1180	-0.0104	0.0144	0.0881	-0.1219
46	0.01	15.07	0.8000	0.0675	0.2496	0.0844	0.3120	-0.1010	-0.0082	0.0149	0.0812	-0.1480

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 79 1.05 1.7 0.0 82W0F16 0.0 DEL1 DEL2 DEL3 DEL4 TRANSITION												
30 0 30 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
47	0.01	15.84	0.7342	0.0581	0.2249	0.0791	0.3064	-0.1002	-0.0092	0.0123	0.0918	-0.1229
48	0.01	16.65	0.6717	0.0485	0.1925	0.0722	0.2866	-0.1327	-0.0119	0.0043	0.0897	-0.0323
49	0.01	17.44	0.6080	0.0431	0.1719	0.0709	0.2827	-0.0939	-0.0101	0.0166	0.1076	-0.1769
50	0.02	16.30	0.5454	0.0385	0.1398	0.0706	0.2564	-0.1058	-0.0109	0.0105	0.1030	-0.0997
51	0.02	19.10	0.4928	0.0326	0.1144	0.0662	0.2322	-0.0963	-0.0108	0.0150	0.1121	-0.1559
52	0.01	19.93	0.4085	0.0269	0.0828	0.0659	0.2027	-0.1114	-0.0103	0.0198	0.0925	-0.1776

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		80		1.10 1.7		0.0 B2WOF16		0.0	30	0	30	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP				
1	0.01	-19.89	0.1229	-0.3190	4.4989	-9.5830	-0.0220	1.3429	-2.5901				
2	0.01	-19.49	0.1032	-0.2454	4.5331	-9.5799	-0.0030	1.3266	-2.3787				
3	0.0	-18.71	0.1126	-0.3806	4.3710	-9.5870	-0.0230	1.3449	-3.3805				
4	0.0	-17.85	0.1478	-0.4689	4.1358	-9.5946	-0.0170	1.3315	-3.1727				
5	0.0	-17.03	0.1121	-0.3769	4.0051	-9.7056	-0.0130	1.3551	-3.3625				
6	0.01	-16.21	0.1179	-0.3230	3.9047	-9.6950	-0.0040	1.3225	-2.7401				
7	0.0	-15.43	0.1135	-0.3818	3.7507	-9.6994	0.0	1.3273	-3.3648				
8	0.01	-14.60	0.1281	-0.3593	3.6126	-9.7001	0.0070	1.3138	-2.8052				
9	0.01	-13.77	0.1227	-0.2947	3.5354	-9.7296	0.0210	1.3044	-2.4024				
10	0.0	-12.94	0.0616	-0.2592	3.3577	-9.7131	0.0110	1.3073	-4.2084				
11	0.01	-12.19	0.0770	-0.1948	3.2612	-9.5550	0.0220	1.2709	-2.5299				
12	0.01	-11.40	0.0846	-0.2374	3.1814	-9.6583	0.0320	1.2682	-2.8066				
13	0.01	-10.69	0.0843	-0.2260	3.0481	-9.6186	0.0380	1.2778	-2.6811				
14	0.01	-9.97	0.0760	-0.1844	2.9557	-9.6183	0.0290	1.2698	-2.4263				
15	0.01	-9.13	0.1118	-0.2475	2.9580	-9.6705	0.0350	1.2366	-2.2140				
16	0.01	-8.40	0.0912	-0.2346	2.8083	-9.7309	0.0370	1.2587	-2.5732				
17	0.01	-7.60	0.0682	-0.2314	2.7215	-9.7419	0.0380	1.2687	-3.3941				
18	0.01	-6.80	0.0336	-0.1100	2.7388	-9.8736	0.0290	1.2671	-3.2750				
19	0.01	-6.02	0.0942	-0.2628	2.6614	-9.9591	0.0340	1.2899	-2.7907				
20	0.01	-5.25	0.0778	-0.2229	2.5593	-9.9801	0.0290	1.2715	-2.8653				
21	0.01	-4.45	0.0445	-0.0943	2.6982	-9.9457	0.0240	1.2568	-2.1191				
22	0.01	-3.71	0.0668	-0.1745	2.4133	-9.7558	0.0260	1.2540	-2.6126				
23	0.01	-2.86	0.0479	-0.1500	2.3241	-9.6549	0.0250	1.2352	-3.1328				
24	0.01	-2.10	0.0725	-0.1955	2.3416	-9.6224	0.0230	1.2081	-2.6966				
25	0.01	-1.26	0.0729	-0.2030	2.2511	-9.4607	0.0270	1.1996	-2.7855				
26	0.01	-0.49	0.0627	-0.1818	2.1012	-9.3029	0.0260	1.1884	-2.8992				
27	0.01	0.27	0.0876	-0.2356	1.9272	-9.0463	0.0190	1.1678	-2.6900				
28	0.01	1.03	0.0853	-0.2274	1.8558	-8.8302	0.0190	1.1471	-2.6661				
29	0.01	1.81	0.0543	-0.1560	1.8903	-8.7806	0.0190	1.1451	-2.8733				
30	0.01	2.58	0.0905	-0.2457	1.7384	-8.5359	0.0080	1.1239	-2.7149				
31	0.01	3.35	0.0838	-0.2163	1.5957	-8.3182	0.0090	1.0962	-2.5814				
32	0.01	4.11	0.0177	-0.0758	1.5849	-8.0451	0.0170	1.0645	-4.2814				
33	0.01	4.92	0.0513	-0.1478	1.5556	-8.2480	0.0300	1.0670	-2.8815				
34	0.01	5.71	0.0689	-0.1664	1.3720	-8.0380	0.0110	1.0391	-2.4160				
35	0.01	6.54	0.0629	-0.1550	1.3498	-7.8910	0.0160	0.9995	-2.4652				
36	0.01	7.30	0.0620	-0.1748	1.1388	-7.6475	0.0140	0.9650	-2.8194				
37	0.01	8.12	0.0841	-0.1847	1.0130	-7.4214	0.0130	0.9416	-2.1967				
38	0.01	8.93	0.0752	-0.2263	0.9360	-7.2066	0.0060	0.9225	-3.0090				
39	0.01	9.70	0.0642	-0.1529	0.7961	-7.0128	0.0100	0.9095	-2.3813				
40	0.01	10.54	0.0273	-0.0612	0.6942	-6.7261	0.0130	0.9083	-2.2425				
41	0.02	11.31	0.0771	-0.1239	0.4132	-6.5098	0.0030	0.8891	-1.6075				
42	0.01	12.09	0.0492	-0.1129	0.2696	-6.2356	0.0040	0.8756	-2.2943				
43	0.02	12.85	0.0750	-0.0580	0.2001	-5.9934	0.0040	0.8244	-0.7733				
44	0.02	13.63	0.0785	-0.1069	0.0036	-5.6653	-0.0100	0.7866	-1.3618				
45	0.02	14.38	0.0627	-0.0748	-0.1471	-5.4184	-0.0110	0.7415	-1.1927				
46	0.02	15.16	0.0612	-0.0617	-0.4490	-4.9446	-0.0140	0.6689	-1.0078				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 80 1.10 1.7 0.0 82WUF16 0.0 30 0 30 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	0.02	15.95	0.0668	-0.0265	-0.5632	-4.7218	-0.0070	0.6258	-0.3970	
48	0.02	16.70	0.0386	-0.0130	-0.7852	-4.4760	-0.0160	0.5749	-0.3378	
49	0.02	17.57	0.0718	-0.0735	-0.8412	-4.3336	-0.0290	0.5489	-1.0240	
50	0.02	18.38	0.0377	0.0322	-1.1888	-4.0019	-0.0120	0.4816	0.8546	
51	0.01	19.13	0.0913	-0.2118	-1.5053	-3.6908	-0.0330	0.4085	-2.3200	
52	0.01	19.74	0.0122	-0.0201	-1.5950	-3.6872	-0.0050	0.3887	-1.6459	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	80	1.10	1.7	0.0	B2WOF16	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCFF1	YCPF1	CNF2	CH2	CB2	XCFF2	YCPF2
1	0.01	-19.89	0.0858	-0.0087	0.8564	-0.1014	9.9812	0.0681	0.0052	0.0073	0.0764	0.1071
2	0.01	-19.49	0.0812	-0.0072	0.8524	-0.0887	10.4970	0.0685	0.0048	0.0056	0.0701	0.0821
3	0.0	-18.71	0.0799	-0.0061	0.8492	-0.0763	10.6286	0.0843	0.0106	0.0127	0.1257	0.1505
4	0.0	-17.85	0.0726	-0.0041	0.8415	-0.0565	11.5908	0.0737	0.0079	0.0044	0.1072	0.0591
5	0.0	-17.03	0.0749	-0.0034	0.8464	-0.0454	11.2998	0.0643	0.0050	0.0013	0.0778	0.0206
6	0.01	-16.21	0.0649	-0.0015	0.8357	-0.0231	12.8771	0.0540	0.0025	-0.0036	0.0463	-0.0668
7	0.0	-15.43	0.0499	0.0006	0.8281	0.0120	16.5457	0.0560	0.0036	-0.0071	0.0643	-0.1275
8	0.01	-14.60	0.0435	0.0023	0.8202	0.0529	18.8550	0.0447	0.0017	-0.0126	0.0380	-0.2820
9	0.01	-13.77	0.0405	0.0034	0.8224	0.0840	20.3060	0.0422	0.0005	-0.0122	0.0118	-0.2900
10	0.0	-12.94	0.0288	0.0054	0.8077	0.1875	28.0450	0.0367	0.0014	-0.0159	0.0381	-0.4325
11	0.01	-12.19	0.0180	0.0073	0.7973	0.4056	44.2943	0.0359	-0.0007	-0.0172	-0.0195	-0.4802
12	0.01	-11.40	0.0130	0.0084	0.7965	0.6462	61.2717	0.0298	-0.0008	-0.0178	-0.0268	-0.5963
13	0.01	-10.69	0.0110	0.0095	0.8013	0.8636	72.8423	0.0290	-0.0016	-0.0191	-0.0552	-0.6599
14	0.01	-9.97	0.0056	0.0106	0.7918	1.8929	141.3868	0.0287	-0.0012	-0.0181	-0.0418	-0.6319
15	0.01	-9.13	-0.0008	0.0117	0.7518	-14.6250	-989.7917	0.0381	-0.0013	-0.0145	-0.0341	-0.3807
16	0.01	-8.40	-0.0028	0.0124	0.7540	-4.4286	-283.5596	0.0383	-0.0011	-0.0154	-0.0287	-0.4031
17	0.01	-7.60	0.0022	0.0128	0.7553	5.8182	361.5149	0.0359	-0.0011	-0.0160	-0.0306	-0.4467
18	0.01	-6.80	-0.0020	0.0132	0.7916	-6.6000	-395.8167	0.0274	-0.0021	-0.0225	-0.0766	-0.8201
19	0.01	-6.02	0.0070	0.0131	0.7982	1.8714	114.0332	0.0321	-0.0014	-0.0161	-0.0436	-0.5017
20	0.01	-5.25	0.0008	0.0141	0.7923	17.6250	990.3333	0.0341	-0.0015	-0.0140	-0.0440	-0.4117
21	0.01	-4.45	0.0008	0.0149	0.7852	18.6250	981.4583	0.0235	-0.0022	-0.0176	-0.0936	-0.7476
22	0.01	-3.71	-0.0045	0.0153	0.7782	-3.4000	-172.9335	0.0348	-0.0011	-0.0127	-0.0316	-0.3651
23	0.01	-2.86	-0.0142	0.0160	0.7700	-1.1268	-54.2231	0.0267	-0.0023	-0.0154	-0.0861	-0.5769
24	0.01	-2.10	-0.0242	0.0154	0.7571	-0.6364	-31.2866	0.0365	0.0	-0.0098	0.0	-0.2695
25	0.01	-1.26	-0.0299	0.0163	0.7482	-0.5452	-25.0246	0.0309	-0.0015	-0.0122	-0.0485	-0.3949
26	0.01	-0.49	-0.0411	0.0167	0.7410	-0.4063	-18.0293	0.0320	-0.0013	-0.0116	-0.0406	-0.3637
27	0.01	0.27	-0.0509	0.0174	0.7236	-0.3418	-14.2169	0.0397	0.0006	-0.0076	0.0151	-0.1907
28	0.01	1.03	-0.0659	0.0193	0.7062	-0.2929	-10.7169	0.0357	-0.0010	-0.0116	-0.0280	-0.3250
29	0.01	1.81	-0.0784	0.0206	0.6955	-0.2628	-8.8709	0.0326	-0.0017	-0.0138	-0.0521	-0.4245
30	0.01	2.58	-0.1034	0.0238	0.6686	-0.2302	-6.4666	0.0383	0.0010	-0.0072	0.0261	-0.1890
31	0.01	3.35	-0.1172	0.0269	0.6492	-0.2255	-5.5397	0.0376	0.0	-0.0093	0.0	-0.2466
32	0.01	4.11	-0.1458	0.0320	0.6339	-0.2195	-4.3479	0.0205	-0.0048	-0.0204	-0.2341	-0.9936
33	0.01	4.92	-0.1453	0.0565	0.6067	-0.3889	-4.5883	0.0411	0.0001	-0.0078	0.0024	-0.1899
34	0.01	5.71	-0.1737	0.0593	0.6409	-0.3414	-3.6898	0.0376	-0.0004	-0.0086	-0.0106	-0.2280
35	0.01	6.54	-0.2011	0.0606	0.6145	-0.3013	-3.0556	0.0411	-0.0006	-0.0120	-0.0146	-0.2921
36	0.01	7.30	-0.2235	0.0606	0.5914	-0.2711	-2.6462	0.0428	0.0005	-0.0084	0.0117	-0.1972
37	0.01	8.12	-0.2475	0.0594	0.5696	-0.2400	-2.3015	0.0411	-0.0007	-0.0111	-0.0170	-0.2702
38	0.01	8.93	-0.2697	0.0573	0.5435	-0.2125	-2.0153	0.0537	0.0023	-0.0057	0.0428	-0.1063
39	0.01	9.70	-0.2933	0.0551	0.5198	-0.1879	-1.7721	0.0427	-0.0007	-0.0123	-0.0164	-0.2874
40	0.01	10.54	-0.3261	0.0508	0.4884	-0.1558	-1.4917	0.0414	-0.0010	-0.0121	-0.0242	-0.2924
41	0.02	11.31	-0.3463	0.0482	0.4630	-0.1392	-1.3370	0.0459	-0.0004	-0.0103	-0.0087	-0.2245
42	0.01	12.09	-0.3709	0.0447	0.4324	-0.1205	-1.1658	0.0526	0.0010	-0.0077	0.0190	-0.1459
43	0.02	12.85	-0.3982	0.0421	0.4025	-0.1057	-1.0108	0.0499	0.0004	-0.0077	0.0080	-0.1538
44	0.02	13.63	-0.4263	0.0379	0.3676	-0.0889	-0.8622	0.0555	0.0018	-0.0061	0.0324	-0.1100
45	0.02	14.38	-0.4596	0.0351	0.3358	-0.0764	-0.7305	0.0576	0.0016	-0.0048	0.0278	-0.0835
46	0.02	15.16	-0.4849	0.0317	0.3013	-0.0654	-0.6214	0.0611	0.0017	-0.0043	0.0278	-0.0710

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 80 1.10 1.7 0.0 82h0F16 0.0 30 0 30 0 FIXED

PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	15.95	-0.5138	0.0296	0.2728	-0.0576	-0.5309	0.0582	0.0012	-0.0072	0.0206	-0.1238
48	0.02	16.70	-0.5480	0.0264	0.2430	-0.0482	-0.4444	0.0669	0.0028	-0.0006	0.0419	-0.0091
49	0.02	17.57	-0.5684	0.0227	0.2146	-0.0386	-0.3648	0.0650	0.0013	-0.0025	0.0200	-0.0391
50	0.02	18.38	-0.6334	0.0177	0.1868	-0.0279	-0.2950	0.0635	-0.0019	-0.0051	-0.0299	-0.0810
51	0.01	19.13	-0.6782	0.0128	0.1589	-0.0189	-0.2343	0.0747	-0.0021	0.0020	-0.0281	0.0267
52	0.01	19.74	-0.6981	0.0085	0.1503	-0.0122	-0.2153	0.0650	-0.0015	-0.0045	-0.0231	-0.0699

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	BU	1.10	1.7	0.0	B2W016	0.0	30	0	30	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CD4	XCPF4	YCPF4
1	0.01	-19.89	1.8405	0.0283	0.6469	0.0154	0.3748	-0.1059	-0.0155	0.0023	0.1464	-0.0218
2	0.01	-19.49	1.8295	0.0295	0.6531	0.0161	0.3789	-0.0979	-0.0131	0.0091	0.1438	-0.0927
3	0.0	-18.71	1.8431	0.0302	0.6989	0.0164	0.3792	-0.1003	-0.0143	0.0059	0.1426	-0.0586
4	0.0	-17.85	1.8423	0.0321	0.6926	0.0174	0.3759	-0.0975	-0.0135	0.0073	0.1385	-0.0750
5	0.0	-17.03	1.8243	0.0347	0.6842	0.0190	0.3750	-0.0972	-0.0137	0.0067	0.1409	-0.0690
6	0.01	-16.21	1.7960	0.0362	0.6731	0.0202	0.3748	-0.1001	-0.0139	0.0058	0.1389	-0.0584
7	0.0	-15.43	1.8005	0.0377	0.6743	0.0209	0.3745	-0.0879	-0.0123	0.0097	0.1399	-0.1105
8	0.01	-14.60	1.7774	0.0390	0.6621	0.0219	0.3725	-0.0807	-0.0123	0.0077	0.1524	-0.0955
9	0.01	-13.77	1.7514	0.0406	0.6564	0.0232	0.3748	-0.0915	-0.0117	0.0107	0.1279	-0.1171
10	0.0	-12.94	1.7370	0.0417	0.6508	0.0240	0.3747	-0.0909	-0.0123	0.0089	0.1353	-0.0980
11	0.01	-12.19	1.7035	0.0435	0.6359	0.0255	0.3733	-0.0910	-0.0123	0.0089	0.1352	-0.0976
12	0.01	-11.40	1.6967	0.0443	0.6338	0.0261	0.3735	-0.0825	-0.0101	0.0127	0.1224	-0.1541
13	0.01	-10.69	1.6755	0.0456	0.6314	0.0272	0.3768	-0.0756	-0.0105	0.0118	0.1389	-0.1562
14	0.01	-9.97	1.6589	0.0474	0.6297	0.0286	0.3796	-0.0914	-0.0124	0.0089	0.1357	-0.0979
15	0.01	-9.13	1.6377	0.0483	0.6212	0.0295	0.3793	-0.0796	-0.0094	0.0129	0.1181	-0.1618
16	0.01	-8.40	1.6541	0.0491	0.6267	0.0297	0.3789	-0.0797	-0.0099	0.0129	0.1242	-0.1624
17	0.01	-7.60	1.6539	0.0497	0.6273	0.0301	0.3793	-0.0821	-0.0116	0.0102	0.1413	-0.1248
18	0.01	-6.80	1.6658	0.0500	0.6297	0.0300	0.3780	-0.0917	-0.0124	0.0089	0.1352	-0.0975
19	0.01	-6.02	1.6695	0.0506	0.6355	0.0303	0.3809	-0.0770	-0.0086	0.0155	0.1117	-0.2019
20	0.01	-5.25	1.6634	0.0510	0.6306	0.0307	0.3791	-0.0793	-0.0097	0.0129	0.1223	-0.1624
21	0.01	-4.45	1.6632	0.0514	0.6288	0.0309	0.3781	-0.0954	-0.0112	0.0118	0.1174	-0.1238
22	0.01	-3.71	1.6409	0.0513	0.6228	0.0313	0.3795	-0.0891	-0.0093	0.0134	0.1044	-0.1505
23	0.01	-2.86	1.6249	0.0511	0.6181	0.0314	0.3804	-0.0851	-0.0095	0.0111	0.1116	-0.1309
24	0.01	-2.10	1.5971	0.0506	0.6090	0.0317	0.3813	-0.0664	-0.0066	0.0149	0.0994	-0.2240
25	0.01	-1.26	1.5827	0.0503	0.5984	0.0318	0.3781	-0.0767	-0.0067	0.0160	0.0874	-0.2092
26	0.01	-0.49	1.5583	0.0508	0.5886	0.0326	0.3774	-0.0864	-0.0074	0.0154	0.0856	-0.1784
27	0.01	0.27	1.5370	0.0510	0.5780	0.0332	0.3760	-0.0773	-0.0055	0.0178	0.0712	-0.2308
28	0.01	1.03	1.5053	0.0525	0.5643	0.0349	0.3749	-0.0773	-0.0055	0.0178	0.0712	-0.2308
29	0.01	1.81	1.4932	0.0538	0.5565	0.0360	0.3727	-0.0835	-0.0061	0.0163	0.0731	-0.1949
30	0.01	2.58	1.4633	0.0550	0.5389	0.0376	0.3683	-0.0749	-0.0039	0.0205	0.0521	-0.2743
31	0.01	3.35	1.4165	0.0575	0.5239	0.0406	0.3699	-0.0673	-0.0048	0.0174	0.0713	-0.2582
32	0.01	4.11	1.3699	0.0624	0.5028	0.0456	0.3670	-0.0953	-0.0078	0.0116	0.0818	-0.1222
33	0.01	4.92	1.4290	0.0904	0.5232	0.0633	0.3661	-0.0834	-0.0067	0.0162	0.0803	-0.1944
34	0.01	5.71	1.3743	0.0912	0.5066	0.0664	0.3687	-0.0735	-0.0065	0.0157	0.0884	-0.2137
35	0.01	6.54	1.3232	0.0920	0.4845	0.0695	0.3662	-0.0717	-0.0050	0.0197	0.0697	-0.2749
36	0.01	7.30	1.2054	0.0908	0.4639	0.0718	0.3666	-0.0746	-0.0050	0.0176	0.0670	-0.2365
37	0.01	8.12	1.2158	0.0889	0.4440	0.0731	0.3652	-0.0676	-0.0039	0.0151	0.0577	-0.2230
38	0.01	8.93	1.1756	0.0866	0.4270	0.0737	0.3632	-0.0650	-0.0024	0.0171	0.0369	-0.2637
39	0.01	9.70	1.1124	0.0820	0.4025	0.0737	0.3618	-0.0665	-0.0048	0.0113	0.0722	-0.1705
40	0.01	10.54	1.0592	0.0774	0.3774	0.0731	0.3563	-0.0676	-0.0037	0.0151	0.0547	-0.2230
41	0.02	11.31	1.0129	0.0740	0.3560	0.0731	0.3515	-0.0765	-0.0058	0.0125	0.0758	-0.1635
42	0.01	12.09	0.9548	0.0703	0.3322	0.0736	0.3479	-0.0659	-0.0048	0.0112	0.0728	-0.1706
43	0.02	12.85	0.8862	0.0666	0.3047	0.0752	0.3438	-0.0699	-0.0050	0.0147	0.0715	-0.2104
44	0.02	13.63	0.8184	0.0618	0.2792	0.0755	0.3412	-0.0907	-0.0093	0.0088	0.1025	-0.0968
45	0.02	14.38	0.7454	0.0573	0.2534	0.0769	0.3399	-0.0966	-0.0093	0.0072	0.0963	-0.0747
46	0.02	15.16	0.6948	0.0529	0.2237	0.0761	0.3220	-0.0965	-0.0122	0.0089	0.1264	-0.0927

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER/NSRDC/

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		80		1.10		1.7	0.0	0.2MUF16	0.0	30	0	30	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
47	0.02	15.95	0.6190	0.0476	0.1962	0.0769	0.3169	-0.0867	-0.0130	0.0084	0.1499	-0.0970		
48	0.02	16.70	0.5717	0.0420	0.1711	0.0735	0.2993	-0.1074	-0.0154	-0.0010	0.1434	0.0092		
49	0.02	17.57	0.5229	0.0376	0.1555	0.0719	0.2975	-0.1067	-0.0175	-0.0034	0.1440	0.0314		
50	0.02	18.38	0.4612	0.0320	0.1288	0.0694	0.2792	-0.0993	-0.0143	0.0039	0.1440	-0.0394		
51	0.01	19.13	0.4168	0.0259	0.1032	0.0621	0.2476	-0.1077	-0.0132	-0.0034	0.1226	0.0315		
52	0.01	19.74	0.3760	0.0221	0.0855	0.0588	0.2274	-0.0940	-0.0107	0.0056	0.1138	-0.0393		

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RA10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	0.85	1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	-19.92	0.0970	-0.2278	3.5831	-7.1791	-0.0100	0.5906	-2.3485	
2	0.01	-19.91	0.1280	-0.3432	3.5522	-6.9559	-0.0020	0.5919	-2.6812	
3	0.01	-19.55	0.1348	-0.3927	3.4983	-7.1404	0.0030	0.5916	-2.9134	
4	0.01	-18.71	0.1235	-0.3099	3.4166	-7.0969	0.0010	0.5822	-2.5093	
5	0.01	-17.87	0.0994	-0.2931	3.2748	-6.9674	0.0100	0.5860	-2.4493	
6	0.01	-17.03	0.0929	-0.3030	3.1445	-6.9509	0.0170	0.5792	-3.2622	
7	0.01	-16.20	0.1028	-0.2369	3.0566	-6.8867	0.0260	0.5647	-2.3047	
8	0.01	-15.40	0.0856	-0.2608	2.9250	-6.7587	0.0200	0.5671	-3.0472	
9	0.01	-14.56	0.0459	-0.1102	2.8218	-6.6642	0.0210	0.5617	-2.4022	
10	0.01	-13.73	0.0584	-0.1647	2.7074	-6.4751	0.0220	0.5390	-2.8212	
11	0.01	-12.88	0.0435	-0.1669	2.5623	-6.3748	0.0170	0.5454	-3.8368	
12	0.01	-12.12	0.0399	-0.1598	2.4344	-6.2478	0.0190	0.5425	-4.0065	
13	0.01	-11.32	0.0347	-0.1616	2.3616	-6.1550	0.0170	0.5407	-4.6565	
14	0.01	-10.61	0.0321	-0.1349	2.2166	-6.0689	0.0110	0.5244	-4.2037	
15	0.01	-9.85	0.0467	-0.1854	2.1292	-5.8905	0.0100	0.5182	-3.9696	
16	0.01	-9.03	0.0459	-0.2022	2.0314	-5.8086	0.0090	0.5111	-4.4065	
17	0.01	-8.28	0.0424	-0.1923	1.9357	-5.6897	0.0130	0.5044	-4.5368	
18	0.01	-7.46	0.0399	-0.1728	1.8037	-5.5397	0.0040	0.4982	-4.3323	
19	0.01	-6.67	0.0384	-0.1187	1.7459	-5.4948	0.0050	0.5029	-3.0927	
20	0.01	-5.86	0.0517	-0.2254	1.6219	-5.3052	0.0050	0.4803	-4.3594	
21	0.01	-5.09	0.0413	-0.1708	1.5415	-5.1857	0.0060	0.4725	-4.1361	
22	0.01	-4.32	0.0649	-0.2518	1.4211	-5.0402	0.0090	0.4581	-3.8807	
23	0.0	-3.54	0.1077	-0.4587	1.4602	-5.3099	0.0340	0.4489	-4.2598	
24	0.0	-2.70	0.1007	-0.4439	1.4894	-5.7997	0.0440	0.4529	-4.4089	
25	0.0	-1.95	0.0757	-0.3419	1.5128	-6.0514	0.0290	0.4569	-4.5176	
26	0.0	-1.12	0.0740	-0.3286	1.5047	-6.1581	0.0210	0.4516	-4.4405	
27	0.01	-0.34	0.0500	-0.2450	1.4551	-6.1266	0.0160	0.4387	-4.9800	
28	0.01	0.44	0.0692	-0.2618	1.3521	-6.0584	0.0110	0.4274	-3.7844	
29	0.01	1.18	0.0608	-0.2751	1.2901	-5.9886	0.0210	0.4153	-4.5250	
30	0.0	1.95	0.0494	-0.2621	1.2457	-5.8605	0.0150	0.3997	-5.3069	
31	0.01	2.74	0.0676	-0.2936	1.1967	-5.8466	0.0150	0.3938	-4.3438	
32	0.01	3.51	0.0717	-0.3003	1.1238	-5.6657	0.0110	0.3782	-4.1894	
33	0.0	4.25	0.0602	-0.2872	0.9679	-5.4865	0.0100	0.3623	-4.1721	
34	0.0	5.04	0.0749	-0.3278	0.8802	-5.2487	0.0100	0.3420	-4.3773	
35	0.01	5.88	0.0772	-0.3210	0.8299	-5.1863	0.0260	0.3356	-4.1591	
36	0.01	6.65	0.0498	-0.2217	0.7602	-5.3587	-0.0010	0.3254	-4.4522	
37	0.01	7.48	0.0328	-0.2139	0.6717	-5.1778	-0.0020	0.3203	-6.5219	
38	0.01	8.25	0.0425	-0.2195	0.5374	-5.0058	0.0020	0.3181	-5.1647	
39	0.01	9.10	0.0448	-0.2317	0.4182	-4.6330	0.0	0.3045	-5.1723	
40	0.01	9.86	0.0509	-0.2512	0.2526	-4.2361	-0.0050	0.2900	-4.9363	
41	0.01	10.67	0.0337	-0.1722	0.1306	-3.8183	-0.0070	0.2778	-5.1092	
42	0.01	11.50	0.0164	-0.1079	-0.0877	-3.4258	-0.0040	0.2518	-6.5829	
43	0.01	12.25	0.0535	-0.1709	-0.2913	-2.8918	-0.0210	0.2130	-3.1944	
44	0.01	13.07	0.0277	-0.0888	-0.4744	-2.4154	-0.0180	0.1849	-3.2051	
45	0.01	13.82	0.0402	-0.0853	-0.6185	-2.0017	-0.0230	0.1504	-2.1214	
46	0.01	14.62	0.0384	-0.0668	-0.8210	-1.6232	-0.0240	0.1078	-1.7385	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 81 0.85 1.7 0.0 82WOF16 0.0 20 0 20 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	15.37	0.0415	-0.0851	-0.9832	-1.3682	-0.0420	0.0799	-2.0506
48	0.01	16.16	0.0367	-0.0764	-1.0906	-1.0219	-0.0430	0.0352	-2.0812
49	0.02	16.98	0.0384	-0.0128	-1.3145	-0.7953	-0.0420	0.0021	-0.3323
50	0.01	17.78	0.0428	-0.0859	-1.4993	-0.4856	-0.0530	-0.0347	-2.0075
51	0.01	18.44	0.0494	-0.1821	-1.4259	-0.2394	-0.0540	-0.0585	-3.6874
52	0.01	19.46	0.0033	0.0004	-1.8947	0.2488	-0.0310	-0.0963	0.1152
53	0.01	20.16	-0.0169	0.0367	-2.0468	0.5729	-0.0260	-0.1134	-2.1692

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CNFF	L	OEL1	OEL2	OEL3	DEL4	TRANSITION		
6	81	0.85	1.7	0.0	0.82	WOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNFF	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.01	-19.92	0.9395	0.0334	0.5143	0.0356	0.5474	0.0081	0.0057	-0.0073	0.7037	-0.9014
2	0.01	-19.91	0.9360	0.0332	0.5163	0.0355	0.5516	0.0065	0.0045	-0.0075	0.6923	-1.1591
3	0.01	-19.55	0.9368	0.0341	0.5145	0.0364	0.5492	0.0024	0.0036	-0.0180	1.5000	-7.5001
4	0.01	-18.71	0.9281	0.0354	0.5092	0.0381	0.5486	0.0043	0.0038	-0.0119	0.8837	-2.7598
5	0.01	-17.87	0.9205	0.0367	0.5043	0.0399	0.5479	-0.0077	0.0016	-0.0171	-0.2078	2.2163
6	0.01	-17.03	0.9115	0.0383	0.4975	0.0420	0.5458	-0.0091	0.0007	-0.0178	-0.0769	1.9596
7	0.01	-16.20	0.8993	0.0398	0.4876	0.0443	0.5422	-0.0267	-0.0035	-0.0270	0.1311	1.0111
8	0.01	-15.40	0.8924	0.0415	0.4821	0.0465	0.5402	-0.0189	0.0006	-0.0188	-0.0317	0.9946
9	0.01	-14.56	0.8715	0.0433	0.4707	0.0497	0.5401	-0.0343	-0.0031	-0.0233	0.0904	0.6802
10	0.01	-13.73	0.8617	0.0449	0.4581	0.0521	0.5317	-0.0206	-0.0021	-0.0176	0.1019	0.8526
11	0.01	-12.88	0.8512	0.0469	0.4447	0.0551	0.5225	-0.0223	-0.0005	-0.0181	0.0224	0.8130
12	0.01	-12.12	0.8405	0.0477	0.4355	0.0568	0.5181	-0.0138	0.0003	-0.0119	-0.0217	0.8622
13	0.01	-11.32	0.8185	0.0489	0.4250	0.0597	0.5193	-0.0159	-0.0007	-0.0099	0.0440	0.6225
14	0.01	-10.61	0.7969	0.0501	0.4115	0.0629	0.5169	-0.0081	0.0	-0.0078	0.0	0.9628
15	0.01	-9.85	0.7875	0.0508	0.4017	0.0645	0.5101	-0.0072	0.0002	-0.0048	-0.0278	0.6665
16	0.01	-9.03	0.7797	0.0515	0.3914	0.0661	0.5020	-0.0025	0.0007	-0.0035	-0.2800	1.4132
17	0.01	-8.28	0.7575	0.0523	0.3798	0.0690	0.5014	-0.0084	-0.0004	-0.0063	0.0476	0.7499
18	0.01	-7.46	0.7465	0.0527	0.3675	0.0706	0.4924	0.0034	0.0009	-0.0006	0.2647	-0.1668
19	0.01	-6.67	0.7337	0.0532	0.3608	0.0725	0.4917	-0.0009	0.0014	-0.0036	-1.5556	3.9999
20	0.01	-5.86	0.7133	0.0533	0.3464	0.0747	0.4856	0.0070	0.0013	-0.0019	0.1857	-0.2608
21	0.01	-5.09	0.6857	0.0533	0.3377	0.0777	0.4925	0.0020	0.0009	-0.0016	0.4500	-0.8168
22	0.01	-4.32	0.6807	0.0530	0.3251	0.0779	0.4776	0.0002	0.0013	-0.0013	6.5000	-6.6668
23	0.0	-3.54	0.7183	0.0515	0.3501	0.0717	0.4875	0.0237	0.0046	0.0123	0.1941	0.5189
24	0.0	-2.70	0.7532	0.0512	0.3777	0.0680	0.5014	0.0185	0.0034	0.0060	0.1838	0.3224
25	0.0	-1.95	0.7544	0.0500	0.3835	0.0663	0.5083	0.0122	0.0040	0.0038	0.3279	0.3086
26	0.0	-1.12	0.7582	0.0495	0.3814	0.0653	0.5031	-0.0001	0.0015	0.0001	-15.0000	-0.6668
27	0.01	-0.34	0.7402	0.0493	0.3787	0.0666	0.5117	-0.0002	0.0019	0.0002	-9.5000	-1.1668
28	0.01	0.44	0.7270	0.0497	0.3707	0.0684	0.5100	-0.0021	0.0031	0.0008	-1.4762	-0.3811
29	0.01	1.18	0.7166	0.0501	0.3660	0.0699	0.5107	-0.0056	0.0028	0.0017	-0.5000	-0.3096
30	0.0	1.95	0.6991	0.0507	0.3559	0.0725	0.5090	-0.0076	0.0035	0.0027	-0.4605	-0.3510
31	0.01	2.74	0.6772	0.0571	0.3504	0.0843	0.5174	0.0006	0.0043	0.0033	7.1667	5.4999
32	0.01	3.51	0.6601	0.0585	0.3378	0.0886	0.5117	-0.0025	0.0033	0.0024	-1.3200	-0.9468
33	0.0	4.25	0.6278	0.0646	0.3234	0.1029	0.5151	-0.0075	0.0027	0.0026	-0.4600	-0.3468
34	0.0	5.04	0.5927	0.0666	0.3030	0.1124	0.5112	0.0019	0.0045	0.0050	2.3684	2.6490
35	0.01	5.88	0.5621	0.0563	0.3514	0.1555	0.9703	0.0112	0.0044	0.0090	0.3929	0.8064
36	0.01	6.65	0.2781	0.1193	0.3228	0.4290	1.1606	-0.0059	0.0042	0.0019	-0.7119	-0.3278
37	0.01	7.48	0.2482	0.1127	0.3007	0.4541	1.2115	-0.0044	0.0050	0.0027	-1.1364	-0.6213
38	0.01	8.25	0.2176	0.1058	0.2812	0.4862	1.2923	-0.0063	0.0046	0.0038	-0.7302	-0.6033
39	0.01	9.10	0.1700	0.0951	0.2525	0.5594	1.4856	-0.0019	0.0053	0.0064	-2.7895	-3.3510
40	0.01	9.86	0.1188	0.0856	0.2229	0.7205	1.8761	0.0035	0.0052	0.0049	1.4857	1.3904
41	0.01	10.67	0.0627	0.0746	0.1914	1.1898	3.0525	0.0003	0.0047	0.0045	15.6667	14.9999
42	0.01	11.50	0.0058	0.0639	0.1619	11.0172	27.9194	0.0006	0.0042	0.0032	7.0000	5.3332
43	0.01	12.25	-0.0672	0.0491	0.1261	-0.7307	-1.8766	0.0027	0.0063	0.0076	2.3333	2.8147
44	0.01	13.07	-0.1260	0.0355	0.0989	-0.2817	-0.7850	0.0026	0.0034	0.0018	1.3077	0.6794
45	0.01	13.82	-0.1842	0.0211	0.0723	-0.1145	-0.3926	0.0086	0.0042	0.0038	0.4884	0.4379
46	0.01	14.62	-0.2514	0.0044	0.0458	-0.0175	-0.1823	0.0142	0.0058	0.0076	0.4085	0.5374

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 81 0.85 1.7 0.0 B2WOF16 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.37	-0.3146	-0.0094	0.0283	0.0299	-0.0899	0.0159	0.0058	0.0075	0.3648	0.4716
48	0.01	16.16	-0.3751	-0.0237	0.0112	0.0632	-0.0299	0.0204	0.0068	0.0101	0.3333	0.4950
49	0.02	16.98	-0.4299	-0.0401	-0.0096	0.0933	0.0224	0.0150	0.0051	0.0063	0.3400	0.4199
50	0.01	17.78	-0.4877	-0.0562	-0.0266	0.1152	0.0546	0.0244	0.0068	0.0111	0.3036	0.4939
51	0.01	18.64	-0.5404	-0.0688	-0.0439	0.1273	0.0812	0.0324	0.0075	0.0131	0.2315	0.4042
52	0.01	19.46	-0.6071	-0.0809	-0.0691	0.1333	0.1138	0.0245	0.0060	0.0109	0.2449	0.4434
53	0.01	20.16	-0.6631	-0.0897	-0.0897	0.1353	0.1352	0.0216	0.0053	0.0087	0.2454	0.4027

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	B1	0.85	1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	-19.92	1.1854	0.0675	0.4663	0.0569	0.3934	-0.0420	-0.0074	-0.0053	0.1762	0.1261
2	0.01	-19.91	1.1760	0.0678	0.4641	0.0577	0.3946	-0.0381	-0.0066	-0.0034	0.1732	0.0891
3	0.01	-19.55	1.1793	0.0674	0.4613	0.0572	0.3911	-0.0420	-0.0074	-0.0053	0.1762	0.1261
4	0.01	-18.71	1.1635	0.0687	0.4578	0.0590	0.3935	-0.0382	-0.0066	-0.0033	0.1728	0.0871
5	0.01	-17.87	1.1557	0.0700	0.4500	0.0606	0.3894	-0.0384	-0.0063	-0.0026	0.1641	0.0676
6	0.01	-17.03	1.1349	0.0715	0.4458	0.0630	0.3928	-0.0429	-0.0068	-0.0020	0.1585	0.0465
7	0.01	-16.20	1.1317	0.0728	0.4354	0.0643	0.3947	-0.0420	-0.0074	-0.0053	0.1762	0.1261
8	0.01	-15.40	1.0919	0.0745	0.4288	0.0682	0.3927	-0.0343	-0.0058	-0.0014	0.1691	0.0417
9	0.01	-14.56	1.0685	0.0767	0.4226	0.0718	0.3955	-0.0343	-0.0066	-0.0026	0.1723	0.0669
10	0.01	-13.73	1.0579	0.0782	0.4067	0.0739	0.3844	-0.0430	-0.0066	-0.0012	0.1535	0.0286
11	0.01	-12.88	1.0315	0.0792	0.3986	0.0768	0.3864	-0.0430	-0.0063	-0.0012	0.1465	0.0286
12	0.01	-12.12	1.0094	0.0798	0.3889	0.0791	0.3853	-0.0341	-0.0060	-0.0015	0.1760	0.0429
13	0.01	-11.32	0.9925	0.0811	0.3811	0.0817	0.3840	-0.0260	-0.0047	0.0007	0.1808	-0.0283
14	0.01	-10.61	0.9634	0.0816	0.3722	0.0847	0.3864	-0.0216	-0.0038	0.0002	0.1759	-0.0094
15	0.01	-9.85	0.9428	0.0821	0.3632	0.0871	0.3852	-0.0349	-0.0048	0.0010	0.1375	-0.0278
16	0.01	-9.03	0.9252	0.0819	0.3562	0.0885	0.3850	-0.0222	-0.0037	0.0026	0.1667	-0.1172
17	0.01	-8.28	0.8943	0.0823	0.3426	0.0920	0.3831	-0.0092	-0.0022	0.0026	0.2391	-0.2864
18	0.01	-7.46	0.8807	0.0822	0.3361	0.0933	0.3816	-0.0094	-0.0012	0.0027	0.1277	-0.2838
19	0.01	-6.67	0.8838	0.0822	0.3311	0.0930	0.3746	-0.0226	-0.0023	0.0034	0.1018	-0.1491
20	0.01	-5.86	0.8409	0.0818	0.3165	0.0973	0.3764	-0.0103	-0.0003	0.0059	0.0291	-0.5697
21	0.01	-5.09	0.8224	0.0816	0.3041	0.0992	0.3698	-0.0228	-0.0015	0.0035	0.0658	-0.1536
22	0.01	-4.32	0.8051	0.0805	0.2964	0.1000	0.3681	-0.0103	-0.0001	0.0059	0.0097	-0.5697
23	0.0	-3.54	0.7842	0.0790	0.2873	0.1007	0.3664	-0.0070	0.0014	0.0095	-0.2000	-1.3525
24	0.0	-2.70	0.8442	0.0786	0.3099	0.0931	0.3671	-0.0071	0.0011	0.0102	-0.1549	-1.4414
25	0.0	-1.95	0.8852	0.0790	0.3278	0.0892	0.3703	-0.0072	0.0013	0.0102	-0.1806	-1.4168
26	0.0	-1.12	0.8878	0.0783	0.3368	0.0882	0.3794	-0.0024	0.0014	0.0089	-0.5833	-3.7085
27	0.01	-0.34	0.8866	0.0782	0.3294	0.0882	0.3716	-0.0102	-0.0003	0.0058	0.0294	-0.5687
28	0.01	0.44	0.8721	0.0784	0.3135	0.0899	0.3324	0.0027	0.0006	0.0067	0.2222	2.4814
29	0.01	1.18	0.8568	0.0787	0.3222	0.0919	0.3760	0.0109	0.0023	0.0061	0.2110	0.7461
30	0.0	1.95	0.8360	0.0802	0.3140	0.0959	0.3756	-0.0061	-0.0001	0.0070	0.0164	-1.1422
31	0.01	2.74	0.8144	0.0839	0.3074	0.1030	0.3773	0.0056	0.0033	0.0111	0.5893	1.9761
32	0.01	3.51	0.7869	0.0872	0.3006	0.1108	0.3820	0.0011	0.0030	0.0116	2.7273	10.5150
33	0.0	4.25	0.7567	0.0928	0.2878	0.1226	0.3804	-0.0080	0.0023	0.0127	-0.2875	-1.5918
34	0.0	5.04	0.7049	0.0937	0.2692	0.1329	0.3819	0.0048	0.0037	0.0144	0.7708	2.9999
35	0.01	5.88	0.6804	0.0925	0.2544	0.1359	0.3739	-0.0033	0.0031	0.0114	-0.9394	-3.4547
36	0.01	6.65	0.7340	0.1509	0.2123	0.2056	0.3710	0.0009	0.0031	0.0125	3.4444	13.8888
37	0.01	7.48	0.6893	0.1431	0.2553	0.2076	0.3704	0.0139	0.0032	0.0142	0.2302	1.0239
38	0.01	8.25	0.6356	0.1338	0.2316	0.2105	0.3644	0.0051	0.0023	0.0144	0.4510	2.8234
39	0.01	9.10	0.5641	0.1224	0.2048	0.2096	0.3507	0.0054	0.0013	0.0135	0.2407	2.4999
40	0.01	9.86	0.5145	0.1100	0.1779	0.2138	0.3458	-0.0077	0.0006	0.0133	-0.0779	-1.7317
41	0.01	10.67	0.4482	0.0974	0.1483	0.2173	0.3310	0.0068	-0.0001	0.0085	-0.0147	1.2450
42	0.01	11.50	0.3710	0.0832	0.1191	0.2243	0.3211	-0.0105	-0.0013	0.0081	0.1238	-0.7715
43	0.01	12.25	0.3126	0.0716	0.0982	0.2290	0.3140	-0.0067	-0.0001	0.0100	0.0149	-1.4877
44	0.01	13.07	0.2439	0.0546	0.0661	0.2239	0.2709	-0.0176	-0.0032	0.0028	0.1818	-0.1611
45	0.01	13.82	0.1832	0.0398	0.0445	0.2172	0.2431	-0.0252	-0.0049	-0.0001	0.1944	0.0038
46	0.01	14.62	0.1184	0.0257	0.0236	0.2171	0.1989	-0.0173	-0.0032	0.0020	0.1850	-0.1177

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 81 0.85 1.7 0.0 82WOF16 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	15.37	0.0616	0.0110	0.0032	0.1786	0.0524	-0.0233	-0.0060	-0.0073	0.2575	0.3118
48	0.01	16.16	0.0221	-0.0009	-0.0112	-0.0407	-0.5084	-0.0558	-0.0101	-0.0152	0.1810	0.2723
49	0.02	16.98	-0.0386	-0.0166	-0.0292	0.4301	0.7555	-0.0359	-0.0077	-0.0115	0.2145	0.3193
50	0.01	17.78	-0.0853	-0.0316	-0.0433	0.3705	0.5079	-0.0433	-0.0100	-0.0170	0.2309	0.3933
51	0.01	18.44	-0.1445	-0.0485	-0.0604	0.3356	0.4183	-0.0333	-0.0060	-0.0073	0.1802	0.2191
52	0.01	19.46	-0.2043	-0.0648	-0.0839	0.3172	0.4106	-0.0294	-0.0059	-0.0053	0.2007	0.1802
53	0.01	20.16	-0.2602	-0.0768	-0.1053	0.2952	0.4047	-0.0081	-0.0043	-0.0014	0.5309	0.1727

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION
6 82 0.92 1.7			0.0	B2WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.02	-19.93	0.1195	-0.3283	3.6984	-7.6075	0.0	0.6341	-2.7473	
2	0.02	-19.61	0.1124	-0.3383	3.6477	-7.6665	0.0040	0.6353	-3.0103	
3	0.01	-18.91	0.0942	-0.3158	3.6262	-7.6034	0.0020	0.6281	-3.3533	
4	0.01	-18.06	0.0459	-0.3692	3.5291	-7.4455	0.0080	0.6113	-3.8505	
5	0.01	-17.22	0.0953	-0.3814	3.3865	-7.5417	0.0080	0.6271	-4.0023	
6	0.02	-16.38	0.0809	-0.2092	3.2871	-7.5045	0.0100	0.6201	-2.5866	
7	0.01	-15.59	0.0627	-0.2727	3.1630	-7.4848	0.0070	0.6151	-4.3506	
8	0.01	-14.76	0.0720	-0.2728	3.0527	-7.4684	0.0070	0.6064	-3.7889	
9	0.01	-13.96	0.0467	-0.2723	2.9411	-7.3521	0.0080	0.6011	-5.8325	
10	0.01	-13.10	0.0511	-0.2355	2.7889	-7.2401	0.0180	0.6047	-4.6094	
11	0.01	-12.34	0.0639	-0.2614	2.6872	-7.2217	0.0170	0.6124	-4.0917	
12	0.02	-11.60	0.0519	-0.1886	2.5642	-7.1954	0.0080	0.6062	-3.6351	
13	0.02	-10.81	0.0560	-0.1964	2.5385	-7.2494	0.0050	0.6066	-3.5071	
14	0.01	-10.08	0.0712	-0.2706	2.4018	-7.0920	0.0110	0.6173	-3.8017	
15	0.01	-9.29	0.0624	-0.2543	2.2664	-6.9215	0.0150	0.6080	-4.0763	
16	0.01	-8.53	0.0475	-0.2315	2.2075	-7.0290	0.0080	0.6155	-4.8737	
17	0.01	-7.72	0.0475	-0.1965	2.1057	-6.9115	0.0050	0.6116	-4.1368	
18	0.01	-6.93	0.0819	-0.3136	2.1055	-6.9782	0.0170	0.6027	-3.8298	
19	0.01	-6.10	0.0419	-0.2026	2.0070	-6.9733	0.0100	0.6023	-4.8368	
20	0.01	-5.36	0.0825	-0.3475	2.0256	-7.1839	0.0230	0.6012	-4.2121	
21	0.01	-4.64	0.0583	-0.2806	1.9304	-7.3700	0.0140	0.6147	-4.8134	
22	0.01	-3.82	0.0901	-0.3631	1.9212	-7.4821	0.0350	0.5980	-4.0304	
23	0.01	-3.03	0.0536	-0.2870	1.9470	-7.6142	0.0240	0.5846	-5.3552	
24	0.01	-2.20	0.0523	-0.2652	1.8344	-7.5505	0.0130	0.5607	-5.0711	
25	0.01	-1.44	0.0527	-0.2537	1.7931	-7.4976	0.0080	0.5560	-4.8156	
26	0.01	-0.61	0.0444	-0.2331	1.6975	-7.3668	0.0020	0.5496	-6.7779	
27	0.01	0.14	0.0451	-0.2511	1.6207	-7.2003	-0.0100	0.5367	-5.5685	
28	0.01	0.92	0.0550	-0.2750	1.5397	-7.0609	0.0010	0.5259	-5.0000	
29	0.01	1.67	0.0438	-0.2373	1.3790	-6.6430	0.0040	0.5048	-5.4183	
30	0.01	2.48	0.0381	-0.1913	1.3516	-6.5097	0.0440	0.4928	-5.0220	
31	0.01	3.22	0.0486	-0.2210	1.1591	-6.1532	0.0430	0.4695	-4.5481	
32	0.01	4.00	0.0311	-0.1905	1.1676	-6.1741	-0.0060	0.4702	-6.1267	
33	0.01	4.77	0.0284	-0.1687	0.9827	-5.9081	-0.0060	0.4563	-5.9422	
34	0.01	5.58	0.0368	-0.1885	0.9432	-5.6709	-0.0100	0.4424	-5.1228	
35	0.01	6.41	0.0307	-0.1450	0.7721	-5.3344	-0.0010	0.4147	-4.7225	
36	0.01	7.18	0.0401	-0.2081	0.6101	-5.0626	-0.0040	0.3959	-5.1905	
37	0.01	8.00	0.0288	-0.1273	0.5199	-4.7654	0.0070	0.3709	-4.4208	
38	0.01	8.81	0.0419	-0.2086	0.3350	-4.3724	-0.0060	0.3407	-4.9799	
39	0.01	9.64	0.0300	-0.2030	0.2074	-3.9538	-0.0030	0.3125	-6.7667	
40	0.01	10.45	0.0365	-0.1661	0.0724	-3.6539	-0.0020	0.2766	-4.5507	
41	0.01	11.25	0.0397	-0.1956	-0.1364	-3.2126	-0.0080	0.2322	-4.9264	
42	0.01	12.03	0.0313	-0.1348	-0.2791	-2.9099	-0.0100	0.2001	-4.3073	
43	0.01	12.85	0.0500	-0.1700	-0.4176	-2.4964	-0.0160	0.1753	-3.4000	
44	0.01	13.57	0.0362	-0.1537	-0.6869	-1.9929	-0.0330	0.1387	-4.2453	
45	0.01	14.40	0.0408	-0.0841	-0.8778	-1.5157	-0.0310	0.1035	-2.0618	
46	0.01	15.15	0.0527	-0.1358	-1.0167	-1.2113	-0.0340	0.0840	-2.5765	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
0 82 0.92 1.7 0.0 82HOF16 0.6 20 0 20 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP	
47	0.02	15.94	0.0511	-0.0745	-1.2647	-0.8600	-0.0410	0.0484	-1.4587	
48	0.02	16.72	0.0649	-0.1268	-1.3590	-0.5520	-0.0510	0.0326	-1.9547	
49	0.01	17.56	0.0414	-0.0939	-1.5906	-0.1119	-0.0470	-0.0095	-2.2696	
50	0.02	18.40	0.0342	0.0161	-1.7580	0.1685	-0.0370	-0.0337	0.4713	
51	0.01	19.19	-0.0075	0.0195	-1.9527	0.5621	-0.0180	-0.0750	-2.6000	
52	0.02	20.04	-0.0034	0.0008	-2.2370	1.0921	-0.0220	-0.1309	-0.2235	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CNCF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	82	0.92 1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	L81	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	-19.93	-0.3301	0.0239	0.6474	-0.0724	-1.9612	0.0265	0.0032	-0.0070	0.1208	-0.2630
2	0.02	-19.61	-0.3332	0.0248	0.6435	-0.0744	-1.9312	0.0227	0.0044	-0.0098	0.1938	-0.4333
3	0.01	-18.91	-0.3362	0.0244	0.6421	-0.0726	-1.9098	0.0251	0.0033	-0.0012	0.1315	-0.0493
4	0.01	-18.06	-0.3399	0.0272	0.6315	-0.0800	-1.8580	0.0119	0.0022	-0.0193	0.1849	-1.6248
5	0.01	-17.22	-0.3348	0.0282	0.6313	-0.0842	-1.8857	0.0241	0.0019	-0.0087	0.0788	-0.3597
6	0.02	-16.38	-0.3461	0.0300	0.6216	-0.0867	-1.7959	0.0023	-0.0029	-0.0205	-1.2609	-8.9277
7	0.01	-15.59	-0.3391	0.0322	0.6146	-0.0950	-1.8125	0.0139	-0.0006	-0.0085	-0.0432	-0.6092
8	0.01	-14.76	-0.3450	0.0342	0.6084	-0.0991	-1.7636	0.0225	-0.0008	-0.0076	-0.0356	-0.3379
9	0.01	-13.96	-0.3635	0.0349	0.6044	-0.0960	-1.6627	0.0125	-0.0035	-0.0138	-0.2800	-1.1068
10	0.01	-13.10	-0.3616	0.0359	0.5947	-0.0993	-1.6447	0.0071	-0.0047	-0.0153	-0.6620	-2.1597
11	0.01	-12.34	-0.3813	0.0363	0.5892	-0.0952	-1.5454	0.0095	-0.0047	-0.0132	-0.4947	-1.3931
12	0.02	-11.60	-0.3749	0.0376	0.5718	-0.1003	-1.5251	0.0057	-0.0024	-0.0105	-0.4211	-1.8422
13	0.02	-10.81	-0.3761	0.0381	0.5645	-0.1013	-1.5009	0.0107	-0.0007	-0.0075	-0.0654	-0.7042
14	0.01	-10.08	-0.3729	0.0381	0.5624	-0.1022	-1.5083	0.0237	0.0007	-0.0013	0.0295	-0.0550
15	0.01	-9.29	-0.3834	0.0386	0.5495	-0.1007	-1.4344	0.0267	-0.0008	-0.0015	-0.0300	-0.0563
16	0.01	-8.53	-0.3811	0.0391	0.5404	-0.1026	-1.4180	0.0105	-0.0018	-0.0066	-0.1714	-0.6287
17	0.01	-7.72	-0.3855	0.0395	0.5340	-0.1025	-1.3853	0.0225	-0.0002	-0.0026	-0.0089	-0.1157
18	0.01	-6.93	-0.3831	0.0395	0.5324	-0.1031	-1.3898	0.0169	-0.0008	-0.0036	-0.0473	-0.2112
19	0.01	-6.10	-0.3763	0.0395	0.5340	-0.1050	-1.4191	0.0198	-0.0014	-0.0034	-0.0707	-0.1718
20	0.01	-5.36	-0.3671	0.0398	0.5468	-0.1084	-1.4489	0.0330	-0.0010	0.0027	-0.0303	0.0817
21	0.01	-4.64	-0.3706	0.0391	0.5601	-0.1055	-1.5114	0.0274	0.0004	0.0011	0.0146	0.0412
22	0.01	-3.82	-0.3657	0.0385	0.5712	-0.1053	-1.5621	0.0301	-0.0032	0.0025	-0.0066	0.0840
23	0.01	-3.03	-0.3663	0.0402	0.5707	-0.1097	-1.5581	0.0199	-0.0006	-0.0037	-0.0302	-0.1844
24	0.01	-2.20	-0.3829	0.0418	0.5652	-0.1092	-1.4761	0.0129	-0.0001	-0.0049	-0.0078	-0.3800
25	0.01	-1.44	-0.3734	0.0439	0.5632	-0.1176	-1.5082	0.0085	-0.0031	-0.0049	-0.0118	-0.5727
26	0.01	-0.61	-0.3904	0.0441	0.5513	-0.1130	-1.4122	0.0097	0.0	-0.0038	0.0	-0.3884
27	0.01	0.14	-0.4067	0.0463	0.5330	-0.1138	-1.3105	0.0093	0.0017	-0.0025	0.1828	-0.2689
28	0.01	0.92	-0.4228	0.0542	0.5270	-0.1282	-1.2465	0.0122	0.0017	-0.0023	0.1393	-0.1914
29	0.01	1.67	-0.7641	0.0301	0.5629	-0.0394	-0.7367	0.0137	0.0010	-0.0025	0.0730	-0.1850
30	0.01	2.48	-0.5883	0.1112	0.5316	-0.1890	-0.9036	0.0147	0.0010	-0.0003	0.0680	-0.0205
31	0.01	3.22	-0.6306	0.1125	0.5649	-0.1784	-0.8006	0.0198	0.0027	0.0022	0.1364	0.1110
32	0.01	4.00	-0.6646	0.1102	0.4783	-0.1658	-0.7197	0.0089	0.0018	-0.0011	0.2022	-0.1275
33	0.01	4.77	-0.6910	0.1073	0.4557	-0.1553	-0.6595	0.0077	0.0015	-0.0020	0.1948	-0.2642
34	0.01	5.58	-0.7085	0.1043	0.4366	-0.1472	-0.6163	0.0085	0.0005	-0.0051	0.0588	-0.5962
35	0.01	6.41	-0.7331	0.0958	0.4033	-0.1307	-0.5502	0.0078	0.0014	-0.0023	0.1795	-0.2450
36	0.01	7.18	-0.7680	0.0893	0.3803	-0.1163	-0.4952	0.0130	0.0027	0.0000	0.2077	0.0024
37	0.01	8.00	-0.7970	0.0819	0.3519	-0.1028	-0.4416	0.0148	0.0024	-0.0015	0.1622	-0.0492
38	0.01	8.81	-0.8380	0.0750	0.3200	-0.0895	-0.3818	0.0172	0.0032	0.0007	0.1860	0.0425
39	0.01	9.64	-0.8848	0.0698	0.2894	-0.0789	-0.3270	0.0211	0.0041	0.0029	0.1943	0.1389
40	0.01	10.45	-0.9318	0.0636	0.2566	-0.0683	-0.2754	0.0154	0.0038	0.0020	0.2468	0.1319
41	0.01	11.25	-1.0003	0.0536	0.2235	-0.0536	-0.2234	0.0222	0.0050	0.0045	0.2252	0.2026
42	0.01	12.03	-1.0495	0.0455	0.1947	-0.0434	-0.1855	0.0183	0.0042	0.0025	0.2295	0.1365
43	0.01	12.85	-1.1047	0.0319	0.1652	-0.0289	-0.1495	0.0230	0.0044	0.0015	0.1913	0.0636
44	0.01	13.57	-1.1821	0.0181	0.1333	-0.0153	-0.1128	0.0257	0.0073	0.0020	0.2840	0.0764
45	0.01	14.40	-1.2535	0.0070	0.1078	-0.0056	-0.0860	0.0204	0.0057	-0.0002	0.2794	-0.0099
46	0.01	15.15	-1.3151	-0.0048	0.0884	0.0036	-0.0672	0.0309	0.0087	0.0049	0.2816	0.1585

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 82 0.92 1.7 0.0 82WOF 16 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	15.94	-1.3792	-0.0204	0.0625	0.0148	-0.0453	0.0266	0.0082	0.0043	0.3083	0.1603
48	0.02	16.72	-1.4271	-0.0340	0.0449	0.0238	-0.0314	0.0283	0.0069	0.0040	0.2438	0.1424
49	0.01	17.56	-1.5011	-0.0545	0.0201	0.0363	-0.0134	0.0434	0.0082	0.0091	0.1889	0.2088
50	0.02	18.40	-1.5546	-0.0699	0.0061	0.0450	-0.0026	0.0411	0.0073	0.0063	0.1776	0.1532
51	0.01	19.19	-1.6015	-0.0796	-0.0148	0.0497	0.0093	0.0405	0.0052	0.0038	0.1284	0.0937
52	0.02	20.04	-1.6772	-0.0874	-0.0494	0.0521	0.0294	0.0425	0.0063	0.0078	0.1482	0.1826

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	0.92	1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	-19.93	1.2866	0.0646	0.4878	0.0502	0.3791	-0.0697	-0.0089	0.0034	0.1277	-0.0484
2	0.02	-19.61	1.2866	0.0649	0.4878	0.0504	0.3791	-0.0850	-0.0100	0.0031	0.1176	-0.0362
3	0.01	-18.91	1.2804	0.0657	0.4856	0.0513	0.3793	-0.0772	-0.0100	0.0029	0.1295	-0.0373
4	0.01	-18.06	1.2788	0.0667	0.4815	0.0522	0.3765	-0.0697	-0.0039	0.0034	0.1277	-0.0484
5	0.01	-17.22	1.2517	0.0680	0.4767	0.0543	0.3808	-0.0697	-0.0089	0.0034	0.1277	-0.0484
6	0.02	-16.38	1.2564	0.0698	0.4710	0.0556	0.3748	-0.0771	-0.0100	0.0028	0.1297	-0.0364
7	0.01	-15.59	1.2247	0.0721	0.4671	0.0584	0.3814	-0.0624	-0.0079	0.0052	0.1266	-0.0835
8	0.01	-14.76	1.2213	0.0736	0.4552	0.0603	0.3727	-0.0694	-0.0095	0.0034	0.1369	-0.0486
9	0.01	-13.96	1.2072	0.0750	0.4502	0.0621	0.3729	-0.0692	-0.0099	0.0033	0.1431	-0.0483
10	0.01	-13.10	1.2028	0.0758	0.4442	0.0630	0.3693	-0.0592	-0.0066	0.0077	0.1115	-0.1296
11	0.01	-12.34	1.1697	0.0767	0.4391	0.0656	0.3754	-0.0592	-0.0072	0.0084	0.1216	-0.1414
12	0.02	-11.60	1.1735	0.0766	0.4350	0.0653	0.3707	-0.0519	-0.0055	0.0095	0.1060	-0.1632
13	0.02	-10.81	1.1640	0.0766	0.4292	0.0658	0.3687	-0.0552	-0.0063	0.0078	0.1141	-0.1414
14	0.01	-10.08	1.1449	0.0768	0.4219	0.0671	0.3685	-0.0588	-0.0072	0.0076	0.1224	-0.1294
15	0.01	-9.29	1.1045	0.0778	0.4046	0.0704	0.3664	-0.0452	-0.0042	0.0128	0.0929	-0.2840
16	0.01	-8.53	1.1099	0.0769	0.4099	0.0693	0.3693	-0.0484	-0.0050	0.0112	0.1033	-0.2308
17	0.01	-7.72	1.0888	0.0769	0.3993	0.0706	0.3667	-0.0525	-0.0050	0.0123	0.0952	-0.2344
18	0.01	-6.93	1.0882	0.0766	0.3947	0.0704	0.3627	-0.0525	-0.0044	0.0123	0.0838	-0.2344
19	0.01	-6.10	1.0714	0.0762	0.3847	0.0711	0.3591	-0.0400	-0.0050	0.0088	0.1250	-0.2193
20	0.01	-5.36	1.0766	0.0766	0.3873	0.0711	0.3298	-0.0419	-0.0029	0.0151	0.0692	-0.3613
21	0.01	-4.64	1.1248	0.0778	0.4078	0.0692	0.3626	-0.0569	-0.0042	0.0141	0.0738	-0.2485
22	0.01	-3.82	1.1144	0.0777	0.4026	0.0697	0.3613	-0.0460	-0.0023	0.0156	0.0500	-0.3385
23	0.01	-3.03	1.1397	0.0773	0.4148	0.0678	0.3639	-0.0456	-0.0020	0.0135	0.0439	-0.2962
24	0.01	-2.20	1.1738	0.0797	0.4225	0.0679	0.3600	-0.0457	-0.0020	0.0136	0.0438	-0.2970
25	0.01	-1.44	1.1746	0.0820	0.4217	0.0698	0.3590	-0.0455	-0.0029	0.0128	0.0637	-0.2822
26	0.01	-0.61	1.1446	0.0820	0.4160	0.0716	0.3634	-0.0455	-0.0029	0.0128	0.0637	-0.2822
27	0.01	0.14	1.1357	0.0955	0.4107	0.0841	0.3617	-0.0267	-0.0004	0.0141	0.0150	-0.5282
28	0.01	0.92	1.0997	0.0997	0.3973	0.0907	0.3613	-0.0346	-0.0012	0.0150	0.0347	-0.4327
29	0.01	1.67	1.0223	0.0972	0.3767	0.0951	0.3685	-0.0347	-0.0004	0.0150	0.0115	-0.4334
30	0.01	2.48	0.9770	0.1011	0.3505	0.1035	0.3587	-0.0347	-0.0004	0.0150	0.0115	-0.4334
31	0.01	3.22	0.9085	0.1115	0.3279	0.1227	0.3610	-0.0387	-0.0001	0.0155	0.0026	-0.4006
32	0.01	4.00	0.9604	0.1474	0.3544	0.1535	0.3696	-0.0226	-0.0004	0.0136	0.0177	-0.6004
33	0.01	4.77	0.9157	0.1416	0.3315	0.1546	0.3620	-0.0309	-0.0010	0.0159	0.0324	-0.5147
34	0.01	5.58	0.8721	0.1348	0.3149	0.1546	0.3611	-0.0384	-0.0012	0.0147	0.0312	-0.3829
35	0.01	6.41	0.8015	0.1265	0.2830	0.1578	0.3531	-0.0343	-0.0029	0.0150	0.0845	-0.4365
36	0.01	7.18	0.7524	0.1201	0.2617	0.1596	0.3478	-0.0353	-0.0030	0.0191	0.0850	-0.5421
37	0.01	8.00	0.6601	0.1115	0.2343	0.1659	0.3445	-0.0273	-0.0030	0.0183	0.1099	-0.6704
38	0.01	8.81	0.6252	0.1045	0.2079	0.1671	0.3326	-0.0233	-0.0030	0.0178	0.1288	-0.7655
39	0.01	9.64	0.5559	0.0977	0.1777	0.1758	0.3197	-0.0274	-0.0032	0.0184	0.1168	-0.6704
40	0.01	10.45	0.4843	0.0916	0.1511	0.1891	0.3119	-0.0234	-0.0030	0.0179	0.1282	-0.7651
41	0.01	11.25	0.4121	0.0818	0.1262	0.1985	0.3063	-0.0191	-0.0030	0.0160	0.1571	-0.8396
42	0.01	12.03	0.3558	0.0689	0.0957	0.1936	0.2689	-0.0222	-0.0038	0.0130	0.1712	-0.5857
43	0.01	12.85	0.3003	0.0572	0.0731	0.1905	0.2433	-0.0216	-0.0051	0.0109	0.2361	-0.5047
44	0.01	13.57	0.2218	0.0415	0.0484	0.1871	0.2182	-0.0426	-0.0082	0.0030	0.1925	-0.0705
45	0.01	14.40	0.1603	0.0272	0.0203	0.1697	0.1267	-0.0234	-0.0072	0.0035	0.3077	-0.1497
46	0.01	15.15	0.1090	0.0166	0.0018	0.1523	0.0167	-0.0428	-0.0073	0.0029	0.1706	-0.0687

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 82 0.92 1.7 0.0 B2WOF16 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	15.94	0.0432	0.0012	-0.0191	0.0278	-0.4422	-0.0572	-0.0100	-0.0002	0.1748	0.0028
48	0.02	16.72	-0.0029	-0.0096	-0.0344	3.3103	11.8505	-0.0538	-0.0074	0.0001	0.1375	-0.0014
49	0.01	17.56	-0.0712	-0.0259	-0.0590	0.3638	0.8290	-0.0682	-0.0088	-0.0038	0.1290	0.0561
50	0.02	18.40	-0.1385	-0.0445	-0.0796	0.3213	0.5744	-0.0538	-0.0076	0.0001	0.1413	-0.0014
51	0.01	19.19	-0.2331	-0.0603	-0.1052	0.2587	0.4512	-0.0202	-0.0031	0.0198	0.1535	-0.9787
52	0.02	20.04	-0.2981	-0.0707	-0.1284	0.2372	0.4308	-0.0332	-0.0073	0.0102	0.2199	-0.3084

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6			83	0.97	1.7	0.0	8240F16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	0.01	-19.83	0.0861	-0.3995	3.9694	-8.3558	-0.0180	0.6840	-4.6404				
2	0.02	-19.49	0.1534	-0.4267	3.8836	-8.2987	-0.0110	0.6797	-2.7820				
3	0.01	-18.64	0.1387	-0.4121	3.9219	-8.1863	-0.0150	0.6762	-2.9717				
4	0.0	-17.82	0.0877	-0.3897	3.6533	-8.1253	-0.0070	0.6865	-4.4445				
5	0.0	-16.96	0.0534	-0.2957	3.6031	-8.1596	0.0050	0.6540	-5.5386				
6	0.02	-16.14	0.1064	-0.3749	3.4120	-8.1083	0.0080	0.6895	-3.5241				
7	0.0	-15.36	0.0541	-0.3587	3.4102	-8.2588	0.0140	0.6578	-6.6311				
8	0.01	-14.50	0.0775	-0.2965	3.1837	-8.2227	0.0170	0.6883	-3.8258				
9	0.01	-13.78	0.0900	-0.3190	3.2141	-8.3272	0.0130	0.6838	-3.5444				
10	0.01	-12.96	0.0562	-0.2906	2.8956	-8.2653	0.0140	0.7160	-5.1722				
11	0.01	-12.10	0.0645	-0.2903	2.8715	-8.3276	0.0210	0.7345	-4.5008				
12	0.01	-11.38	0.0610	-0.2694	2.9148	-8.5092	0.0120	0.7357	-4.4164				
13	0.0	-10.62	0.0339	-0.2514	2.8844	-8.4706	0.0160	0.7386	-7.4177				
14	0.01	-9.90	0.0718	-0.3205	2.8438	-8.8217	0.0220	0.7637	-4.4641				
15	0.01	-9.06	0.0950	-0.3380	2.8205	-8.9631	0.0190	0.7696	-3.5579				
16	0.0	-8.34	0.0839	-0.3834	2.6831	-9.1257	0.0290	0.7911	-4.5704				
17	0.01	-7.53	0.0575	-0.2645	2.6673	-9.3544	0.0160	0.8086	-4.6870				
18	0.01	-6.75	0.0360	-0.2094	2.5135	-9.1571	0.0100	0.7857	-5.8167				
19	0.01	-5.95	0.0517	-0.2643	2.4622	-9.1543	0.0100	0.7653	-5.1137				
20	0.01	-5.17	0.0701	-0.2981	2.4073	-8.9825	0.0140	0.7403	-4.2531				
21	0.0	-4.38	0.0440	-0.2776	2.3073	-8.7165	0.0120	0.7109	-6.3091				
22	0.01	-3.60	0.0560	-0.3224	2.2209	-8.5926	0.0170	0.6702	-5.7571				
23	0.01	-2.78	0.0702	-0.3352	2.0602	-8.4796	0.0030	0.6647	-4.7761				
24	0.01	-2.00	0.0311	-0.2045	2.0637	-8.3385	0.0	0.6358	-6.5768				
25	0.01	-1.21	0.0742	-0.3218	1.8881	-8.0436	0.0	0.6104	-4.3380				
26	0.01	-0.38	0.0064	-0.1669	1.7615	-7.7194	0.0060	0.5905	-26.0875				
27	0.0	0.35	0.0596	-0.3014	1.6674	-7.4207	0.0110	0.5709	-5.0577				
28	0.01	1.14	0.0660	-0.2874	1.5369	-7.0730	0.0070	0.5472	-4.3545				
29	0.02	1.88	0.0828	-0.3199	1.4960	-7.0438	0.0580	0.5501	-3.8638				
30	0.01	2.63	0.0430	-0.2402	1.4046	-7.0021	0.0040	0.5383	-5.5860				
31	0.01	3.41	0.0246	-0.1824	1.2765	-6.7365	0.0080	0.5339	-7.4163				
32	0.01	4.15	0.0533	-0.2626	1.1621	-6.4454	0.0030	0.5144	-4.9272				
33	0.02	4.98	0.0477	-0.2357	0.9721	-6.0463	0.0050	0.4815	-4.9430				
34	0.01	5.80	0.0507	-0.2699	0.9582	-5.8769	0.0010	0.4715	-5.3250				
35	0.01	6.62	0.0382	-0.2055	0.8152	-5.5187	0.0100	0.4522	-5.3791				
36	0.01	7.39	0.0604	-0.2732	0.6994	-5.2206	-0.0010	0.4233	-4.5291				
37	0.01	8.22	0.0119	-0.1466	0.5638	-4.8938	0.0070	0.3987	-12.3244				
38	0.01	9.02	0.0375	-0.1905	0.3105	-4.3657	0.0050	0.3605	-5.0800				
39	0.01	9.83	0.0565	-0.2141	0.1736	-4.0105	-0.0030	0.3390	-3.7894				
40	0.01	10.62	0.0422	-0.1991	0.0209	-3.6238	-0.0060	0.3130	-4.7175				
41	0.01	11.46	0.0280	-0.1392	-0.1487	-3.2334	-0.0070	0.2747	-4.9714				
42	0.02	12.21	0.0440	-0.1516	-0.3439	-2.8742	-0.0160	0.2425	-3.4455				
43	0.02	13.01	0.0472	-0.1491	-0.5655	-2.3458	-0.0180	0.2031	-3.1585				
44	0.02	13.76	0.0372	-0.1121	-0.6591	-2.0455	-0.0230	0.1898	-3.0129				
45	0.02	14.50	0.0390	-0.1146	-0.8964	-1.6277	-0.0250	0.1530	-2.9385				
46	0.02	15.29	0.0299	-0.0669	-1.1584	-1.1208	-0.0340	0.1101	-2.2361				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	83	0.97	1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	16.07	0.0214	-0.0080	-1.3767	-0.7852	-0.0300	0.0894	-0.3720
48	0.02	16.88	0.0132	-0.0205	-1.4194	-0.6415	-0.0380	0.0766	-1.5515
49	0.03	17.68	0.0185	0.0451	-1.7362	-0.1700	-0.0350	0.0265	2.4378
50	0.02	18.56	0.0415	-0.0801	-1.9886	0.2904	-0.0410	-0.0107	-1.9301
51	0.02	19.35	-0.0205	0.1077	-2.1354	0.7779	-0.0290	-0.0482	-5.2537
52	0.02	20.18	-0.0399	0.0469	-2.3397	1.1408	-0.0430	-0.0920	-1.1744
53	0.02	20.56	-0.0762	0.2296	-2.6100	1.7672	-0.0230	-0.1564	-3.0142

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	XX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	83	0.97	1.7	0.0	0.2WOF16	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.01	-19.83	-0.4472	0.0188	0.7021	-0.0420	-1.5700	0.0522	0.0096	0.0032	0.1839	0.0612
2	0.02	-19.49	-0.4534	0.0191	0.6578	-0.0421	-1.5391	0.0457	0.0076	-0.0048	0.1663	-0.1044
3	0.01	-18.64	-0.4475	0.0209	0.6947	-0.0467	-1.5524	0.0542	0.0088	0.0009	0.1624	0.0159
4	0.0	-17.82	-0.4521	0.0228	0.6883	-0.0504	-1.5223	0.0424	0.0080	-0.0029	0.1887	-0.0677
5	0.0	-16.96	-0.4594	0.0246	0.6879	-0.0535	-1.4974	0.0323	0.0035	-0.0122	0.1084	-0.3789
6	0.01	-16.14	-0.4440	0.0257	0.6800	-0.0579	-1.5314	0.0311	0.0038	-0.0072	0.1222	-0.2327
7	0.0	-15.36	-0.4470	0.0269	0.6721	-0.0602	-1.5035	0.0166	0.0024	-0.0226	0.1446	-1.3596
8	0.01	-14.50	-0.4473	0.0274	0.6672	-0.0613	-1.4915	0.0228	0.0028	-0.0137	0.1228	-0.6010
9	0.01	-13.78	-0.4514	0.0280	0.6645	-0.0620	-1.4721	0.0085	0.0025	-0.0184	0.2941	-2.1609
10	0.01	-12.96	-0.4531	0.0279	0.6585	-0.0616	-1.4542	0.0118	0.0006	-0.0139	0.0508	-1.1753
11	0.01	-12.10	-0.4464	0.0280	0.6579	-0.0627	-1.4737	0.0198	0.0014	-0.0129	0.0707	-0.6516
12	0.01	-11.38	-0.4481	0.0284	0.6552	-0.0634	-1.4621	0.0207	0.0028	-0.0113	0.1353	-0.5460
13	0.0	-10.62	-0.4422	0.0279	0.6644	-0.0631	-1.5024	0.0190	0.0012	-0.0096	0.0632	-0.5036
14	0.01	-9.90	-0.4310	0.0282	0.6690	-0.0654	-1.5522	0.0171	0.0001	-0.0131	0.0058	-0.7662
15	0.01	-9.06	-0.4356	0.0284	0.6713	-0.0652	-1.5410	0.0247	-0.0003	-0.0043	-0.0121	-0.1729
16	0.0	-8.34	-0.4331	0.0278	0.6917	-0.0642	-1.5971	0.0293	-0.0011	-0.0056	-0.0375	-0.1924
17	0.01	-7.53	-0.4373	0.0277	0.7041	-0.0633	-1.6101	0.0219	-0.0006	-0.0098	-0.0274	-0.4476
18	0.01	-6.75	-0.4281	0.0290	0.6927	-0.0677	-1.6180	0.0215	-0.0002	-0.0084	-0.0093	-0.3924
19	0.01	-5.95	-0.4450	0.0299	0.6922	-0.0672	-1.5555	0.0221	-0.0004	-0.0107	-0.0181	-0.4858
20	0.01	-5.17	-0.4423	0.0308	0.6794	-0.0696	-1.5361	0.0263	0.0	-0.0054	0.0	-0.2067
21	0.0	-4.38	-0.4580	0.0323	0.6639	-0.0705	-1.4495	0.0226	-0.0003	-0.0073	-0.0133	-0.3217
22	0.01	-3.60	-0.4583	0.0348	0.6477	-0.0759	-1.4132	0.0217	-0.0014	-0.0088	-0.0645	-0.4041
23	0.01	-2.78	-0.4688	0.0359	0.6405	-0.0766	-1.3671	0.0232	0.0006	-0.0043	0.0259	-0.1840
24	0.01	-2.00	-0.4744	0.0362	0.6208	-0.0763	-1.3086	0.0219	-0.0011	-0.0098	-0.0502	-0.4476
25	0.01	-1.21	-0.4780	0.0376	0.6038	-0.0787	-1.2632	0.0287	0.0015	-0.0043	0.0523	-0.1511
26	0.01	-0.38	-0.5044	0.0445	0.5885	-0.0882	-1.1668	0.0151	-0.0014	-0.0103	-0.0927	-0.6800
27	0.0	0.35	-0.5322	0.0491	0.5684	-0.0923	-1.0687	0.0213	-0.0006	-0.0074	-0.0282	-0.3475
28	0.01	1.14	-0.5514	0.0530	0.5438	-0.0961	-0.9862	0.0265	0.0002	-0.0065	0.0075	-0.2441
29	0.02	1.88	-0.4906	0.0901	0.5757	-0.1837	-1.1735	0.0324	0.0017	-0.0023	0.0525	-0.0711
30	0.01	2.63	-0.5041	0.0903	0.5454	-0.1791	-1.0820	0.0272	0.0020	-0.0041	0.0735	-0.1521
31	0.01	3.41	-0.5281	0.0888	0.5247	-0.1881	-0.9936	0.0238	0.0004	-0.0067	0.0168	-0.2802
32	0.01	4.15	-0.5610	0.0870	0.4906	-0.1951	-0.8745	0.0219	0.0012	-0.0049	0.0548	-0.2239
33	0.02	4.98	-0.5977	0.0819	0.4621	-0.1370	-0.7732	0.0273	0.0017	-0.0042	0.0623	-0.1540
34	0.01	5.80	-0.6093	0.0769	0.4384	-0.1262	-0.7195	0.0388	0.0041	-0.0001	0.1057	-0.0018
35	0.01	6.62	-0.6457	0.0719	0.4111	-0.1114	-0.6367	0.0217	-0.0003	-0.0088	-0.0138	-0.4041
36	0.01	7.39	-0.6756	0.0665	0.3825	-0.0984	-0.5661	0.0376	0.0040	-0.0004	0.1064	-0.0099
37	0.01	8.22	-0.7071	0.0611	0.3522	-0.0864	-0.4981	0.0270	0.0004	-0.0078	0.0148	-0.2890
38	0.01	9.02	-0.7483	0.0526	0.3158	-0.0703	-0.4220	0.0275	0.0016	-0.0042	0.0582	-0.1541
39	0.01	9.83	-0.7978	0.0438	0.2786	-0.0549	-0.3492	0.0326	0.0021	-0.0022	0.0644	-0.0686
40	0.01	10.62	-0.8513	0.0366	0.2500	-0.0430	-0.2937	0.0378	0.0029	-0.0008	0.0767	-0.0213
41	0.01	11.46	-0.9112	0.0307	0.2208	-0.0337	-0.2423	0.0388	0.0037	0.0009	0.0954	0.0239
42	0.02	12.21	-0.9699	0.0242	0.1890	-0.0250	-0.1949	0.0437	0.0045	0.0037	0.1030	0.0638
43	0.02	13.01	-1.0286	0.0149	0.1599	-0.0145	-0.1534	0.0442	0.0045	0.0019	0.1018	0.0436
44	0.02	13.76	-1.1051	0.0062	0.1350	-0.0056	-0.1221	0.0440	0.0060	0.0029	0.1364	0.0650
45	0.02	14.50	-1.1770	-0.0012	0.1107	0.0010	-0.0941	0.0475	0.0058	0.0001	0.1221	0.0027
46	0.02	15.29	-1.2450	-0.0117	0.0830	0.0094	-0.0667	0.0481	0.0070	0.0034	0.1455	0.0713

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6												
PH1 CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6	83	0.97	1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	16.07	-1.2963	-0.0237	0.0621	0.0183	-0.0479	0.0411	0.0070	0.0035	0.1703	0.0850
48	0.02	16.88	-1.3600	-0.0399	0.0397	0.0293	-0.0292	0.0424	0.0076	0.0041	0.1792	0.0974
49	0.03	17.68	-1.4298	-0.0514	0.0160	0.0359	-0.0112	0.0529	0.0092	0.0072	0.1739	0.1366
50	0.02	18.56	-1.5002	-0.0582	-0.0096	0.0388	0.0064	0.0532	0.0087	0.0061	0.1635	0.1152
51	0.02	19.35	-1.5680	-0.0624	-0.0399	0.0398	0.0254	0.0442	0.0062	0.0028	0.1403	0.0640
52	0.02	20.18	-1.6310	-0.0657	-0.0718	0.0403	0.0440	0.0608	0.0080	0.0105	0.1316	0.1720
53	0.02	20.56	-1.6558	-0.0678	-0.0805	0.0409	0.0486	0.0576	0.0071	0.0068	0.1233	0.1179

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 83 0.97 1.7			0.0	82WOF16	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCFF3	YCFF3	CNF4	CH4	CH4	XCFF4	YCFF4
1	0.01	-19.83	1.4366	0.0631	0.5293	0.0439	0.3684	-0.1000	-0.0119	0.0051	0.1190	-0.0508
2	0.02	-19.49	1.4398	0.0637	0.5303	0.0442	0.3683	-0.0936	-0.0104	0.0083	0.1111	-0.0888
3	0.01	-18.64	1.4110	0.0643	0.5240	0.0456	0.3713	-0.0935	-0.0112	0.0083	0.1198	-0.0892
4	0.0	-17.82	1.4090	0.0662	0.5139	0.0470	0.3647	-0.1006	-0.0118	0.0072	0.1173	-0.0714
5	0.0	-16.96	1.3997	0.0682	0.5090	0.0487	0.3637	-0.0939	-0.0104	0.0090	0.1108	-0.0960
6	0.01	-16.14	1.3810	0.0701	0.5042	0.0508	0.3651	-0.0831	-0.0097	0.0097	0.1167	-0.1168
7	0.0	-15.36	1.3831	0.0707	0.5032	0.0511	0.3638	-0.0870	-0.0095	0.0108	0.1092	-0.1243
8	0.01	-14.50	1.3776	0.0712	0.4986	0.0517	0.3620	-0.0758	-0.0084	0.0101	0.1108	-0.1338
9	0.01	-13.78	1.3790	0.0710	0.4975	0.0515	0.3608	-0.0866	-0.0097	0.0101	0.1120	-0.1171
10	0.01	-12.96	1.3563	0.0716	0.4906	0.0528	0.3617	-0.0753	-0.0094	0.0095	0.1248	-0.1263
11	0.01	-12.10	1.3489	0.0708	0.4890	0.0525	0.3625	-0.0639	-0.0094	0.0088	0.1471	-0.1378
12	0.01	-11.38	1.3668	0.0709	0.4931	0.0519	0.3608	-0.0692	-0.0071	0.0140	0.1026	-0.2029
13	0.0	-10.62	1.3717	0.0708	0.4923	0.0516	0.3589	-0.0749	-0.0096	0.0094	0.1282	-0.1261
14	0.01	-9.90	1.3821	0.0716	0.4947	0.0518	0.3580	-0.0610	-0.0075	0.0118	0.1230	-0.1930
15	0.01	-9.06	1.3790	0.0718	0.4928	0.0521	0.3574	-0.0578	-0.0064	0.0139	0.1194	-0.2412
16	0.0	-8.34	1.3828	0.0726	0.4998	0.0525	0.3614	-0.0627	-0.0092	0.0177	0.0829	-0.2824
17	0.01	-7.53	1.4341	0.0732	0.5251	0.0510	0.3661	-0.0688	-0.0071	0.0140	0.1032	-0.2031
18	0.01	-6.75	1.4281	0.0733	0.5230	0.0513	0.3662	-0.0650	-0.0069	0.0134	0.1062	-0.2068
19	0.01	-5.95	1.4256	0.0743	0.5212	0.0521	0.3656	-0.0682	-0.0075	0.0119	0.1100	-0.1741
20	0.01	-5.17	1.4018	0.0747	0.5083	0.0533	0.3626	-0.0587	-0.0050	0.0166	0.0852	-0.2835
21	0.0	-4.38	1.3750	0.0744	0.4969	0.0541	0.3614	-0.0729	-0.0063	0.0157	0.0864	-0.2155
22	0.01	-3.60	1.3366	0.0752	0.4823	0.0563	0.3608	-0.0595	-0.0040	0.0193	0.0672	-0.3239
23	0.01	-2.78	1.3531	0.0790	0.4858	0.0584	0.3590	-0.0569	-0.0020	0.0228	0.0351	-0.4014
24	0.01	-2.00	1.3048	0.0798	0.4712	0.0612	0.3611	-0.0757	-0.0073	0.0128	0.0964	-0.1688
25	0.01	-1.21	1.2972	0.0873	0.4604	0.0673	0.3550	-0.0488	-0.0020	0.0199	0.0410	-0.4086
26	0.01	-0.38	1.2400	0.0952	0.4355	0.0768	0.3512	-0.0749	-0.0073	0.0100	0.0975	-0.1341
27	0.0	0.35	1.1833	0.0938	0.4149	0.0793	0.3506	-0.0636	-0.0022	0.0204	0.0346	-0.3209
28	0.01	1.14	1.1356	0.0950	0.3462	0.0837	0.3489	-0.0597	-0.0020	0.0193	0.0335	-0.3234
29	0.02	1.88	1.0793	0.1004	0.3784	0.0930	0.3506	-0.0598	-0.0012	0.0193	0.0201	-0.3223
30	0.01	2.63	1.1272	0.1341	0.4060	0.1190	0.3602	-0.0630	-0.0020	0.0177	0.0317	-0.2811
31	0.01	3.41	1.0825	0.1302	0.3806	0.1203	0.3516	-0.0741	-0.0022	0.0184	0.0297	-0.2484
32	0.01	4.15	1.0174	0.1275	0.3590	0.1253	0.3529	-0.0452	-0.0004	0.0195	0.0088	-0.4323
33	0.02	4.98	0.9447	0.1218	0.3317	0.1289	0.3511	-0.0549	-0.0016	0.0193	0.0267	-0.3229
34	0.01	5.80	0.9048	0.1164	0.3112	0.1286	0.3439	-0.0544	-0.0020	0.0173	0.0337	-0.2914
35	0.01	6.62	0.8483	0.1092	0.2811	0.1287	0.3413	-0.0544	-0.0030	0.0174	0.0505	-0.2930
36	0.01	7.39	0.8005	0.1037	0.2578	0.1295	0.3221	-0.0491	-0.0022	0.0201	0.0448	-0.4102
37	0.01	8.22	0.7365	0.0958	0.2284	0.1301	0.3101	-0.0633	-0.0034	0.0179	0.0537	-0.2829
38	0.01	9.02	0.6529	0.0880	0.2020	0.1348	0.3093	-0.0601	-0.0022	0.0195	0.0366	-0.3240
39	0.01	9.83	0.5925	0.0792	0.1728	0.1337	0.2917	-0.0715	-0.0028	0.0208	0.0392	-0.2906
40	0.01	10.62	0.5163	0.0689	0.1469	0.1334	0.2846	-0.0565	-0.0014	0.0197	0.0248	-0.3482
41	0.01	11.46	0.4418	0.0563	0.1183	0.1274	0.2678	-0.0635	-0.0022	0.0178	0.0346	-0.2810
42	0.02	12.21	0.3812	0.0488	0.0973	0.1280	0.2553	-0.0595	-0.0028	0.0168	0.0471	-0.2819
43	0.02	13.01	0.3044	0.0386	0.0674	0.1268	0.2215	-0.0475	-0.0034	0.0135	0.0716	-0.2836
44	0.02	13.76	0.2664	0.0321	0.0455	0.1205	0.1707	-0.0607	-0.0063	0.0084	0.1038	-0.1380
45	0.02	14.50	0.1949	0.0205	0.0235	0.1052	0.1208	-0.0712	-0.0072	0.0064	0.1011	-0.0895
46	0.02	15.29	0.1270	0.0088	-0.0050	0.0693	-0.0392	-0.0890	-0.0083	0.0038	0.0933	-0.0432

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 83 0.97 1.7 0.0 B2WOF16 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	16.07	0.0750	-0.0025	-0.0234	-0.0333	-0.3121	-0.0721	-0.0078	0.0091	0.1082	-0.1259
48	0.02	16.88	0.0163	-0.0181	-0.0456	-1.1104	-2.7956	-0.0780	-0.0096	0.0039	0.1231	-0.0501
49	0.03	17.68	-0.0622	-0.0328	-0.0703	0.5273	1.1306	-0.0818	-0.0112	0.0049	0.1369	-0.0604
50	0.02	18.56	-0.1269	-0.0422	-0.0926	0.3325	0.7296	-0.0719	-0.0065	0.0084	0.1182	-0.1174
51	0.02	19.35	-0.1942	-0.0487	-0.1161	0.2508	0.5979	-0.0780	-0.0112	0.0045	0.1436	-0.0578
52	0.02	20.18	-0.2845	-0.0537	-0.1431	0.1888	0.5030	-0.0780	-0.0106	0.0039	0.1359	-0.0501
53	0.02	20.56	-0.3454	-0.0551	-0.1651	0.1595	0.4780	-0.0827	-0.0117	0.0077	0.1415	-0.0936

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	85	1.01 1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	-20.02	0.1206	-0.4248	4.3234	-9.2864	-0.0080	0.8759	-3.5227	
2	0.01	-19.76	0.1802	-0.5042	4.2843	-9.3276	-0.0150	0.8848	-2.7984	
3	0.01	-18.98	0.1181	-0.3943	4.2679	-9.2797	-0.0060	0.8693	-3.3390	
4	0.0	-18.14	0.1027	-0.4227	4.0553	-9.2939	-0.0160	0.8746	-4.1167	
5	0.01	-17.29	0.1033	-0.3646	3.9634	-9.4752	-0.0110	0.8736	-3.5297	
6	0.01	-16.47	0.1205	-0.4086	3.8297	-9.4350	-0.0040	0.8729	-3.3917	
7	0.01	-15.67	0.1225	-0.3874	3.6666	-9.4797	0.0020	0.8855	-3.1633	
8	0.01	-14.86	0.1097	-0.3625	3.5853	-9.5335	0.0140	0.8805	-3.3052	
9	0.01	-14.06	0.0841	-0.3147	3.4596	-9.5429	0.0120	0.8651	-3.7424	
10	0.01	-13.25	0.0856	-0.3238	3.3820	-9.5521	0.0190	0.8677	-3.7832	
11	0.01	-12.45	0.0830	-0.3062	3.3300	-9.6773	0.0160	0.8527	-3.6892	
12	0.01	-11.70	0.0801	-0.3221	3.1515	-9.6979	0.0140	0.8686	-4.0217	
13	0.01	-10.92	0.0537	-0.2591	3.1163	-9.7601	0.0150	0.8623	-4.8264	
14	0.01	-10.19	0.0667	-0.2543	3.0020	-9.8401	0.0140	0.8697	-3.8138	
15	0.01	-9.40	0.0701	-0.2901	2.9618	-9.8808	0.0110	0.8589	-4.1389	
16	0.01	-8.66	0.0751	-0.2937	2.8708	-9.8434	0.0100	0.8589	-3.7262	
17	0.01	-7.83	0.0667	-0.2693	2.7781	-9.7506	0.0080	0.8419	-4.0387	
18	0.0	-7.06	0.0620	-0.3008	2.6665	-9.5663	0.0130	0.8208	-4.8516	
19	0.0	-6.23	0.0707	-0.3329	2.5641	-9.4499	0.0160	0.8061	-4.7098	
20	0.0	-5.47	0.0582	-0.2924	2.4802	-9.2625	0.0110	0.7804	-5.0254	
21	0.01	-4.68	0.0520	-0.2538	2.4077	-9.0860	0.0100	0.7485	-4.8808	
22	0.01	-3.92	0.0538	-0.2453	2.2549	-8.9441	0.0030	0.7338	-4.5598	
23	0.01	-3.09	0.0677	-0.2507	2.1526	-8.6959	0.0	0.7107	-3.7043	
24	0.01	-2.30	0.0604	-0.2445	2.0447	-8.4319	0.0020	0.6860	-4.0490	
25	0.01	-1.47	0.0870	-0.3078	1.9576	-8.2150	0.0050	0.6665	-3.5379	
26	0.01	-0.70	0.0773	-0.3002	1.8316	-7.9145	0.0050	0.6422	-3.8838	
27	0.01	0.07	0.0779	-0.2910	1.7139	-7.6077	0.0080	0.6189	-3.7363	
28	0.01	0.84	0.0746	-0.3104	1.5665	-7.3544	0.0070	0.6144	-4.1614	
29	0.01	1.56	0.0769	-0.3196	1.6504	-7.8678	0.0100	0.6436	-4.1568	
30	0.01	2.39	0.0471	-0.2509	1.4948	-7.3810	0.0130	0.6258	-5.3278	
31	0.01	3.12	0.0635	-0.2689	1.3553	-7.0048	0.0060	0.6088	-4.2346	
32	0.01	3.91	0.0437	-0.2491	1.2561	-6.6639	0.0100	0.5846	-5.7021	
33	0.01	4.67	0.0499	-0.2248	1.1082	-6.3768	0.0100	0.5619	-4.5062	
34	0.01	5.52	0.0562	-0.2346	0.9687	-6.0145	0.0110	0.5336	-4.1758	
35	0.01	6.32	0.0592	-0.2269	0.8342	-5.6723	0.0040	0.5119	-3.8324	
36	0.01	7.09	0.0677	-0.2317	0.6895	-5.3677	0.0050	0.4873	-3.4236	
37	0.02	7.90	0.0684	-0.2227	0.5334	-4.9782	0.0010	0.4572	-3.2567	
38	0.01	8.68	0.0557	-0.2080	0.3754	-4.5950	-0.0010	0.4290	-3.7339	
39	0.01	9.53	0.0398	-0.1787	0.2312	-4.2131	-0.0070	0.3989	-4.4904	
40	0.01	10.33	0.0399	-0.1658	0.0834	-3.8353	-0.0100	0.3618	-4.1569	
41	0.01	11.13	0.0645	-0.1813	-0.1139	-3.3871	-0.0100	0.3252	-2.8109	
42	0.02	11.93	0.0641	-0.1617	-0.3080	-2.9584	-0.0190	0.2884	-2.5232	
43	0.01	12.73	0.0312	-0.1107	-0.5406	-2.5167	-0.0160	0.2600	-3.5474	
44	0.02	13.47	0.0423	-0.1002	-0.6805	-2.2154	-0.0190	0.2317	-2.3693	
45	0.02	14.27	0.0362	-0.1057	-0.8539	-1.7642	-0.0270	0.2031	-2.9193	
46	0.02	15.02	0.0459	-0.1042	-1.0366	-1.4754	-0.0280	0.1855	-2.2715	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RATIO	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	0.5	1.01	1.7	0.0	0.2	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	15.81	0.0321	-0.0149	-1.2290	-1.1430	-0.0270	0.1604	-0.4654
48	0.02	16.56	0.0511	-0.0823	-1.4728	-0.7537	-0.0450	0.1237	-1.6153
49	0.02	17.40	0.0241	0.0073	-1.6546	-0.5292	-0.0370	0.1066	0.3012
50	0.02	18.24	0.0358	-0.0271	-1.8549	-0.1538	-0.0450	0.0719	-0.7575
51	0.02	19.07	0.0243	-0.0610	-2.1213	0.3232	-0.0390	0.0315	-2.9111
52	0.02	19.88	0.0139	0.0175	-2.4007	0.7503	-0.0330	0.0020	1.8019

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 05 1.01 1.7			0.0	B2M0F16	0.0	20	0	20	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	KCPF1	YCPF1	CNF2	CH2	CB2	KCPF2	YCPF2
1	0.01	-20.02	-0.2903	0.0102	0.7861	-0.0351	-2.7078	0.0483	0.0045	0.0033	0.0932	0.0682
2	0.01	-19.76	-0.2889	0.0102	0.7862	-0.0353	-2.7215	0.0657	0.0068	0.0024	0.1035	0.0364
3	0.01	-18.98	-0.2927	0.0112	0.7804	-0.0383	-2.6661	0.0508	0.0042	-0.0016	0.0827	-0.0310
4	0.0	-18.14	-0.2933	0.0123	0.7727	-0.0419	-2.6344	0.0551	0.0053	-0.0036	0.0962	-0.0661
5	0.01	-17.29	-0.2915	0.0125	0.7715	-0.0429	-2.6465	0.0535	0.0045	-0.0024	0.0841	-0.0444
6	0.01	-16.47	-0.2949	0.0141	0.7569	-0.0478	-2.5668	0.0354	0.0001	-0.0147	0.0028	-0.4154
7	0.01	-15.67	-0.2935	0.0142	0.7600	-0.0484	-2.5494	0.0360	0.0003	-0.0119	0.0083	-0.3307
8	0.01	-14.86	-0.2929	0.0154	0.7535	-0.0526	-2.5726	0.0203	-0.0024	-0.0226	-0.1182	-1.1151
9	0.01	-14.06	-0.2937	0.0165	0.7459	-0.0562	-2.5398	0.0216	-0.0011	-0.0175	-0.0509	-0.8103
10	0.01	-13.25	-0.2935	0.0170	0.7473	-0.0579	-2.5462	0.0286	-0.0003	-0.0140	-0.0105	-0.4885
11	0.01	-12.45	-0.3006	0.0179	0.7447	-0.0595	-2.4775	0.0327	0.0	-0.0092	0.0	-0.2815
12	0.01	-11.70	-0.2990	0.0186	0.7451	-0.0622	-2.4919	0.0282	0.0010	-0.0126	0.0355	-0.4469
13	0.01	-10.92	-0.2977	0.0191	0.7471	-0.0642	-2.5096	0.0267	0.0004	-0.0116	0.0150	-0.4346
14	0.01	-10.19	-0.2975	0.0199	0.7492	-0.0669	-2.5182	0.0291	0.0	-0.0104	0.0	-0.3575
15	0.01	-9.40	-0.3058	0.0209	0.7453	-0.0683	-2.4372	0.0278	0.0002	-0.0103	0.0072	-0.3718
16	0.01	-8.66	-0.3117	0.0218	0.7448	-0.0699	-2.3896	0.0309	0.0	-0.0066	0.0	-0.2137
17	0.01	-7.83	-0.3252	0.0229	0.7353	-0.0704	-2.2612	0.0278	0.0	-0.0103	0.0	-0.3718
18	0.0	-7.06	-0.3335	0.0240	0.7240	-0.0720	-2.1708	0.0301	0.0003	-0.0142	0.0100	-0.4708
19	0.0	-6.23	-0.3414	0.0255	0.7094	-0.0747	-2.0780	0.0293	-0.0002	-0.0160	-0.0068	-0.5473
20	0.0	-5.47	-0.3509	0.0264	0.6962	-0.0752	-1.9840	0.0285	-0.0003	-0.0128	-0.0105	-0.4492
21	0.01	-4.68	-0.3604	0.0285	0.6801	-0.0791	-1.8871	0.0322	-0.0005	-0.0116	-0.0155	-0.3593
22	0.01	-3.92	-0.3653	0.0291	0.6706	-0.0797	-1.8357	0.0300	0.0002	-0.0082	0.0067	-0.2735
23	0.01	-3.09	-0.3731	0.0306	0.6502	-0.0820	-1.7426	0.0329	0.0002	-0.0092	0.0061	-0.2808
24	0.01	-2.30	-0.3862	0.0317	0.6299	-0.0821	-1.6311	0.0289	0.0	-0.0093	0.0	-0.3208
25	0.01	-1.47	-0.4157	0.0349	0.6159	-0.0840	-1.4816	0.0374	0.0014	-0.0062	0.0374	-0.1668
26	0.01	-0.70	-0.4382	0.0391	0.5968	-0.0892	-1.3619	0.0335	0.0009	-0.0068	0.0269	-0.2041
27	0.01	0.07	-0.4584	0.0430	0.5783	-0.0938	-1.2615	0.0397	0.0017	-0.0053	0.0428	-0.1328
28	0.01	0.84	-0.4840	0.0497	0.5669	-0.1027	-1.1713	0.0397	0.0017	-0.0053	0.0428	-0.1328
29	0.01	1.56	-0.4276	0.0708	0.5984	-0.1656	-1.3995	0.0354	0.0019	-0.0041	0.0537	-0.1159
30	0.01	2.39	-0.4400	0.0694	0.5676	-0.1577	-1.2900	0.0288	-0.0003	-0.0092	-0.0104	-0.3196
31	0.01	3.12	-0.4534	0.0676	0.5394	-0.1491	-1.1897	0.0353	0.0021	-0.0040	0.0595	-0.1144
32	0.01	3.91	-0.4781	0.0665	0.5016	-0.1391	-1.0491	0.0322	0.0008	-0.0072	0.0248	-0.2227
33	0.01	4.67	-0.5056	0.0643	0.4698	-0.1272	-0.9242	0.0308	0.0010	-0.0067	0.0325	-0.2187
34	0.01	5.22	-0.5456	0.0620	0.4413	-0.1136	-0.8088	0.0280	-0.0003	-0.0111	-0.0107	-0.3954
35	0.01	6.32	-0.5724	0.0578	0.4078	-0.1010	-0.7124	0.0399	0.0021	-0.0056	0.0526	-0.1405
36	0.01	7.09	-0.5928	0.0541	0.3772	-0.0913	-0.6363	0.0461	0.0027	-0.0035	0.0586	-0.0768
37	0.02	7.90	-0.6328	0.0483	0.3431	-0.0763	-0.5423	0.0471	0.0030	-0.0020	0.0637	-0.0426
38	0.01	8.68	-0.6720	0.0426	0.3114	-0.0634	-0.4634	0.0499	0.0033	-0.0021	0.0661	-0.0415
39	0.01	9.53	-0.7180	0.0362	0.2814	-0.0504	-0.3919	0.0478	0.0024	-0.0041	0.0502	-0.0852
40	0.01	10.33	-0.7675	0.0308	0.2534	-0.0401	-0.3301	0.0514	0.0029	-0.0023	0.0564	-0.0442
41	0.01	11.13	-0.8269	0.0245	0.2182	-0.0296	-0.2638	0.0565	0.0038	-0.0006	0.0673	-0.0101
42	0.02	11.93	-0.8902	0.0186	0.1875	-0.0209	-0.2106	0.0602	0.0046	0.0008	0.0764	0.0126
43	0.01	12.73	-0.9486	0.0113	0.1588	-0.0119	-0.1674	0.0539	0.0040	-0.0005	0.0742	-0.0100
44	0.02	13.47	-1.0081	0.0052	0.1352	-0.0052	-0.1341	0.0511	0.0042	0.0001	0.0822	0.0025
45	0.02	14.27	-1.0782	-0.0023	0.1066	-0.0021	-0.0989	0.0523	0.0051	0.0005	0.0975	0.0101
46	0.02	15.02	-1.1264	-0.0097	0.0864	0.0086	-0.0767	0.0558	0.0058	0.0029	0.1039	0.0519

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 85 1.01 1.7 0.0 B2WOF16 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	15.81	-1.1894	-0.0239	0.0606	0.0201	-0.0509	0.0551	0.0078	0.0056	0.1416	0.1009
48	0.02	16.56	-1.2550	-0.0395	0.0394	0.0315	-0.0316	0.0534	0.0083	0.0068	0.1554	0.1272
49	0.02	17.40	-1.3250	-0.0505	0.0105	0.0381	-0.0079	0.0419	0.0050	-0.0011	0.1193	-0.0272
50	0.02	18.24	-1.3839	-0.0574	-0.0125	0.0415	0.0091	0.0564	0.0086	0.0052	0.1525	0.0921
51	0.02	19.07	-1.4505	-0.0622	-0.0397	0.0429	0.0274	0.0590	0.0086	0.0059	0.1458	0.0993
52	0.02	19.86	-1.5002	-0.0650	-0.0636	0.0433	0.0424	0.0615	0.0088	0.0068	0.1431	0.1105

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 85 1.01 1.7				0.0	82WOF16	0.0	20	0	20	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	0.01	-20.02	1.6289	0.0603	0.6012	0.0370	0.3691	-0.1035	-0.0120	0.0121	0.1159	-0.1170
2	0.01	-19.76	1.6499	0.0597	0.6050	0.0362	0.3667	-0.1101	-0.0126	0.0110	0.1144	-0.1000
3	0.01	-18.98	1.6360	0.0601	0.5988	0.0367	0.3660	-0.1099	-0.0130	0.0104	0.1183	-0.0944
4	0.0	-18.14	1.6377	0.0604	0.5968	0.0369	0.3644	-0.1093	-0.0128	0.0085	0.1171	-0.0776
5	0.01	-17.29	1.6333	0.0607	0.5961	0.0372	0.3650	-0.1035	-0.0117	0.0128	0.1130	-0.1238
6	0.01	-16.47	1.6171	0.0611	0.5907	0.0378	0.3653	-0.1033	-0.0117	0.0127	0.1133	-0.1227
7	0.01	-15.67	1.6166	0.0619	0.5865	0.0383	0.3628	-0.1042	-0.0117	0.0127	0.1134	-0.1232
8	0.01	-14.86	1.6064	0.0626	0.5825	0.0390	0.3628	-0.0890	-0.0111	0.0117	0.1247	-0.1320
9	0.01	-14.06	1.5778	0.0632	0.5726	0.0401	0.3629	-0.0923	-0.0117	0.0114	0.1268	-0.1240
10	0.01	-13.25	1.5767	0.0643	0.5682	0.0408	0.3604	-0.0859	-0.0105	0.0132	0.1222	-0.1534
11	0.01	-12.45	1.5598	0.0651	0.5610	0.0417	0.3597	-0.0939	-0.0097	0.0159	0.1033	-0.1694
12	0.01	-11.70	1.5784	0.0662	0.5687	0.0419	0.3603	-0.0900	-0.0105	0.0143	0.1167	-0.1590
13	0.01	-10.92	1.5724	0.0670	0.5690	0.0426	0.3619	-0.0892	-0.0111	0.0117	0.1244	-0.1305
14	0.01	-10.19	1.5716	0.0676	0.5680	0.0430	0.3614	-0.0902	-0.0100	0.0143	0.1109	-0.1590
15	0.01	-9.40	1.5746	0.0679	0.5690	0.0431	0.3613	-0.0905	-0.0100	0.0149	0.1105	-0.1651
16	0.01	-8.66	1.5863	0.0684	0.5682	0.0431	0.3582	-0.0772	-0.0080	0.0166	0.1036	-0.2147
17	0.01	-7.83	1.5606	0.0693	0.5634	0.0444	0.3610	-0.0813	-0.0090	0.0176	0.0986	-0.1925
18	0.0	-7.06	1.5429	0.0700	0.5536	0.0454	0.3588	-0.0850	-0.0078	0.0194	0.0918	-0.2280
19	0.0	-6.23	1.4912	0.0709	0.5468	0.0475	0.3667	-0.0793	-0.0059	0.0231	0.0744	-0.2910
20	0.0	-5.47	1.4806	0.0714	0.5337	0.0482	0.3604	-0.0880	-0.0090	0.0178	0.1023	-0.2020
21	0.01	-4.68	1.4469	0.0728	0.5199	0.0503	0.3593	-0.0761	-0.0074	0.0192	0.0948	-0.2455
22	0.01	-3.92	1.4295	0.0748	0.5147	0.0523	0.3601	-0.0782	-0.0066	0.0191	0.0844	-0.2448
23	0.01	-3.09	1.4082	0.0761	0.4995	0.0540	0.3547	-0.0852	-0.0072	0.0199	0.0845	-0.2337
24	0.01	-2.30	1.3602	0.0763	0.4827	0.0561	0.3549	-0.0849	-0.0074	0.0193	0.0872	-0.2274
25	0.01	-1.47	1.3246	0.0784	0.4666	0.0592	0.3522	-0.0756	-0.0047	0.0225	0.0622	-0.2977
26	0.01	-0.70	1.2847	0.0806	0.4492	0.0627	0.3496	-0.0828	-0.0047	0.0234	0.0568	-0.2827
27	0.01	0.07	1.2368	0.0833	0.4280	0.0674	0.3461	-0.0751	-0.0046	0.0212	0.0613	-0.2820
28	0.01	0.84	1.2078	0.0912	0.4207	0.0755	0.3483	-0.0760	-0.0031	0.0244	0.0408	-0.3207
29	0.01	1.56	1.2702	0.1191	0.4473	0.0938	0.3522	-0.0792	-0.0033	0.0229	0.0417	-0.2893
30	0.01	2.39	1.1939	0.1157	0.4206	0.0969	0.3523	-0.0743	-0.0048	0.0186	0.0646	-0.2509
31	0.01	3.12	1.1554	0.1140	0.3955	0.0987	0.3426	-0.0823	-0.0039	0.0220	0.0474	-0.2670
32	0.01	3.91	1.0724	0.1104	0.3660	0.1029	0.3413	-0.0857	-0.0041	0.0217	0.0478	-0.2537
33	0.01	4.67	1.0063	0.1062	0.3426	0.1055	0.3405	-0.0795	-0.0021	0.0229	0.0264	-0.2882
34	0.01	5.52	0.9415	0.1023	0.3179	0.1087	0.3377	-0.0756	-0.0021	0.0212	0.0278	-0.2805
35	0.01	6.32	0.8883	0.0967	0.2901	0.1085	0.3266	-0.0728	-0.0020	0.0240	0.0275	-0.3302
36	0.01	7.09	0.8219	0.0897	0.2619	0.1091	0.3186	-0.0729	-0.0020	0.0241	0.0274	-0.3307
37	0.02	7.90	0.7656	0.0831	0.2337	0.1085	0.3053	-0.0622	-0.0020	0.0235	0.0322	-0.3774
38	0.01	8.68	0.6941	0.0756	0.2093	0.1089	0.3015	-0.0738	-0.0014	0.0267	0.0190	-0.3619
39	0.01	9.53	0.6383	0.0672	0.1835	0.1053	0.2875	-0.0805	-0.0027	0.0251	0.0335	-0.3115
40	0.01	10.33	0.5622	0.0592	0.1598	0.1053	0.2843	-0.0836	-0.0039	0.0235	0.0467	-0.2816
41	0.01	11.13	0.4869	0.0508	0.1298	0.1043	0.2667	-0.0839	-0.0039	0.0236	0.0465	-0.2818
42	0.02	11.93	0.4308	0.0452	0.1060	0.1049	0.2462	-0.0807	-0.0042	0.0252	0.0520	-0.3124
43	0.01	12.73	0.3662	0.0369	0.0723	0.1008	0.1975	-0.0870	-0.0067	0.0228	0.0770	-0.2622
44	0.02	13.47	0.2891	0.0296	0.0503	0.1024	0.1741	-0.0962	-0.0091	0.0182	0.0946	-0.1897
45	0.02	14.27	0.2256	0.0210	0.0202	0.0931	0.0894	-0.1120	-0.0100	0.0112	0.0893	-0.0998
46	0.02	15.02	0.1752	0.0124	-0.0023	0.0708	-0.0132	-0.1054	-0.0099	0.0130	0.0939	-0.1231

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		85	1.01	1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	0.02	15.81	0.1025	0.0004	-0.0220	0.0039	-0.2151	-0.1121	-0.0102	0.0111	0.0910	-0.0994
48	0.02	16.56	0.0494	-0.0122	-0.0417	-0.2470	-0.8449	-0.1112	-0.0108	0.0079	0.0971	-0.0715
49	0.02	17.40	0.0099	-0.0264	-0.0623	-2.6667	-6.2930	-0.1145	-0.0108	0.0070	0.0943	-0.0615
50	0.02	18.24	-0.0716	-0.0381	-0.0859	0.5321	1.1991	-0.1142	-0.0128	0.0070	0.1121	-0.0617
51	0.02	19.07	-0.1468	-0.0440	-0.1135	0.2997	0.7733	-0.1050	-0.0141	0.0130	0.1343	-0.1239
52	0.02	19.86	-0.2249	-0.0484	-0.1415	0.2152	0.6293	-0.1050	-0.0141	0.0130	0.1343	-0.1239

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			86	1.05	1.7	0.0	B2MOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	0.01	-20.01	0.1449	-0.4288	4.3476	-9.2743	-0.0100	0.8982	-2.9597				
2	0.01	-19.84	0.1575	-0.5094	4.2822	-9.2397	-0.0090	0.8864	-3.2349				
3	0.01	-19.03	0.1104	-0.3435	4.1528	-9.1604	-0.0170	0.8799	-3.1120				
4	0.0	-18.23	0.0913	-0.3928	4.0924	-9.2538	-0.0190	0.8783	-4.3025				
5	0.01	-17.35	0.1383	-0.4486	3.9011	-9.1590	-0.0100	0.8645	-3.2438				
6	0.01	-16.56	0.0949	-0.3678	3.8092	-9.2434	-0.0080	0.8612	-3.6823				
7	0.01	-15.78	0.1163	-0.3258	3.6637	-9.2677	0.0	0.8771	-2.6015				
8	0.01	-14.96	0.1053	-0.3534	3.5429	-9.2675	0.0030	0.8730	-3.3563				
9	0.01	-14.17	0.0901	-0.2731	3.4106	-9.3232	0.0110	0.8913	-3.0315				
10	0.01	-13.35	0.0933	-0.3766	3.3872	-9.6154	0.0150	0.9112	-4.0367				
11	0.01	-12.56	0.1058	-0.3721	3.3121	-9.6782	0.0130	0.9209	-3.5172				
12	0.01	-11.81	0.0899	-0.3048	3.2371	-9.8212	0.0160	0.9330	-3.3911				
13	0.0	-11.07	0.0755	-0.3377	3.1189	-9.8817	0.0160	0.9434	-4.4728				
14	0.01	-10.31	0.0848	-0.2917	3.1192	-9.9931	0.0140	0.9453	-3.4401				
15	0.01	-9.55	0.0899	-0.3088	3.0284	-9.9220	0.0160	0.9349	-3.4356				
16	0.01	-8.82	0.0582	-0.2744	2.8554	-9.8068	0.0100	0.9332	-4.7161				
17	0.01	-8.00	0.0663	-0.2748	2.7451	-9.6560	0.0130	0.9168	-4.1451				
18	0.01	-7.23	0.0732	-0.2614	2.6310	-9.4906	0.0070	0.8979	-3.5721				
19	0.01	-6.44	0.0687	-0.2801	2.5616	-9.4024	0.0100	0.8764	-4.0783				
20	0.01	-5.63	0.0564	-0.2349	2.4579	-9.1733	0.0080	0.8514	-4.1660				
21	0.01	-4.89	0.0561	-0.2525	2.3422	-9.0173	0.0060	0.8272	-4.5016				
22	0.01	-4.10	0.0601	-0.2671	2.2248	-8.7650	0.0060	0.8091	-4.4449				
23	0.01	-3.32	0.0700	-0.2780	2.1538	-8.6846	0.0010	0.7859	-3.9714				
24	0.01	-2.47	0.0654	-0.2955	2.0791	-8.4031	0.0030	0.7553	-4.5193				
25	0.01	-1.68	0.0663	-0.2418	1.9597	-8.1829	0.0010	0.7375	-3.6474				
26	0.01	-0.86	0.0575	-0.2485	1.8420	-7.8710	0.0090	0.7243	-4.3217				
27	0.01	-0.12	0.0644	-0.2768	1.8856	-8.3670	0.0120	0.7597	-4.2659				
28	0.01	0.66	0.0795	-0.3143	1.7835	-8.0507	-0.0020	0.7502	-4.0164				
29	0.01	1.39	0.0675	-0.2835	1.5930	-7.7235	0.0040	0.7374	-4.2000				
30	0.01	2.17	0.0678	-0.2819	1.4648	-7.3860	0.0040	0.7231	-4.1581				
31	0.01	2.97	0.0655	-0.2317	1.3413	-7.0092	0.0030	0.7026	-3.5374				
32	0.01	3.71	0.0735	-0.2389	1.1593	-6.6544	0.0020	0.6818	-3.2503				
33	0.01	4.50	0.0684	-0.2337	1.0216	-6.2606	0.0040	0.6519	-3.4175				
34	0.01	5.30	0.0415	-0.2231	0.9203	-5.9948	0.0040	0.6285	-5.3759				
35	0.01	6.17	0.0535	-0.2209	0.7644	-5.5526	0.0060	0.6022	-4.1290				
36	0.01	6.98	0.0366	-0.1842	0.7725	-5.3059	0.0040	0.5773	-5.0349				
37	0.01	7.79	0.0736	-0.2670	0.5876	-4.9561	0.0	0.5392	-3.6283				
38	0.01	8.53	0.0529	-0.2240	0.3281	-4.4998	0.0010	0.5032	-4.3301				
39	0.01	9.40	0.0719	-0.2496	0.1479	-4.0375	0.0	0.4619	-3.4723				
40	0.01	10.18	0.0548	-0.1747	0.0244	-3.7597	0.0030	0.4402	-3.1883				
41	0.01	11.02	0.0651	-0.2081	-0.1800	-3.3196	-0.0050	0.4022	-3.1972				
42	0.01	11.82	0.0437	-0.1662	-0.3005	-2.8779	-0.0110	0.3617	-3.8027				
43	0.01	12.57	0.0539	-0.1774	-0.4855	-2.5398	-0.0150	0.3214	-3.2924				
44	0.02	13.35	0.0761	-0.1905	-0.6796	-2.1471	-0.0130	0.2948	-2.5038				
45	0.02	14.09	0.0632	-0.1835	-0.8865	-1.8690	-0.0290	0.2807	-2.5867				
46	0.02	14.90	0.0567	-0.1204	-1.0634	-1.4939	-0.0260	0.2411	-2.1231				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 86 1.05 1.7 0.0 82WUF16 0.0 20 0 20 0 FIXED										
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	0.01	15.63	0.0403	-0.1234	-1.2693	-1.2135	-0.0320	0.2057	-3.0625	
48	0.02	16.46	0.0507	-0.1022	-1.5032	-0.7501	-0.0310	0.1710	-1.7407	
49	0.01	17.23	0.0462	-0.1487	-1.6584	-0.4319	-0.0440	0.1343	-3.2182	
50	0.02	18.10	0.0093	0.0410	-1.9110	-0.1312	-0.0210	0.0962	4.4065	
51	0.01	18.92	0.0061	-0.0365	-2.1104	0.2299	-0.0350	0.0645	-5.9902	
52	0.02	19.73	0.0018	0.0025	-2.3491	0.6551	-0.0280	0.0162	1.3776	
53	0.02	20.12	-0.0466	0.1452	-2.4493	0.8933	-0.0290	0.0059	-3.1167	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		86	1.05	1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	0.01	-20.01	-0.2582	0.0082	0.7879	-0.0318	-3.0514	0.0579	0.0058	0.0005	0.1002	0.0085
2	0.01	-19.84	-0.2639	0.0093	0.7800	-0.0352	-2.9555	0.0635	0.0066	-0.0021	0.1039	-0.0337
3	0.01	-19.03	-0.2724	0.0102	0.7734	-0.0374	-2.8393	0.0582	0.0059	-0.0011	0.1014	-0.0190
4	0.0	-18.23	-0.2716	0.0110	0.7685	-0.0405	-2.8295	0.0620	0.0071	-0.0007	0.1145	-0.0119
5	0.01	-17.35	-0.2771	0.0123	0.7599	-0.0444	-2.7422	0.0567	0.0054	-0.0046	0.0952	-0.0812
6	0.01	-16.56	-0.2788	0.0135	0.7500	-0.0484	-2.6901	0.0435	0.0016	-0.0123	0.0368	-0.2829
7	0.01	-15.78	-0.2812	0.0139	0.7513	-0.0494	-2.6718	0.0362	0.0005	-0.0131	0.0138	-0.3629
8	0.01	-14.96	-0.2774	0.0147	0.7461	-0.0530	-2.6895	0.0409	0.0022	-0.0070	0.0538	-0.1705
9	0.01	-14.17	-0.2778	0.0156	0.7447	-0.0562	-2.6808	0.0303	-0.0007	-0.0146	-0.0231	-0.4820
10	0.01	-13.35	-0.2699	0.0155	0.7536	-0.0574	-2.7920	0.0277	0.0005	-0.0151	0.0181	-0.5440
11	0.01	-12.56	-0.2666	0.0161	0.7617	-0.0604	-2.8570	0.0347	0.0014	-0.0076	0.0403	-0.2201
12	0.01	-11.81	-0.2691	0.0166	0.7650	-0.0617	-2.8429	0.0237	-0.0001	-0.0140	-0.0042	-0.5908
13	0.0	-11.07	-0.2639	0.0171	0.7665	-0.0648	-2.9044	0.0332	0.0004	-0.0116	0.0120	-0.3505
14	0.01	-10.31	-0.2645	0.0177	0.7667	-0.0664	-2.8985	0.0327	-0.0004	-0.0094	-0.0122	-0.2876
15	0.01	-9.55	-0.2677	0.0187	0.7616	-0.0699	-2.8450	0.0305	-0.0001	-0.0109	-0.0033	-0.3586
16	0.01	-8.82	-0.2770	0.0198	0.7543	-0.0715	-2.7231	0.0321	0.0	-0.0073	0.0	-0.2275
17	0.01	-8.00	-0.2834	0.0207	0.7425	-0.0730	-2.6199	0.0289	0.0	-0.0099	0.0	-0.3415
18	0.01	-7.23	-0.2856	0.0221	0.7316	-0.0774	-2.5617	0.0344	-0.0004	-0.0064	-0.0116	-0.1871
19	0.01	-6.44	-0.2966	0.0235	0.7166	-0.0792	-2.4159	0.0325	-0.0001	-0.0090	-0.0031	-0.2760
20	0.01	-5.63	-0.3112	0.0255	0.6993	-0.0819	-2.2471	0.0361	-0.0003	-0.0084	-0.0083	-0.2319
21	0.01	-4.89	-0.3207	0.0264	0.6839	-0.0823	-2.1326	0.0327	-0.0001	-0.0102	-0.0031	-0.3120
22	0.01	-4.10	-0.3318	0.0276	0.6703	-0.0832	-2.0203	0.0320	0.0	-0.0072	0.0	-0.2262
23	0.01	-3.32	-0.3440	0.0288	0.6547	-0.0837	-1.9031	0.0378	0.0013	-0.0053	0.0344	-0.1403
24	0.01	-2.47	-0.3619	0.0325	0.6306	-0.0898	-1.7425	0.0309	0.0004	-0.0078	0.0129	-0.2525
25	0.01	-1.68	-0.3692	0.0344	0.6206	-0.0932	-1.6809	0.0322	0.0001	-0.0080	0.0031	-0.2475
26	0.01	-0.86	-0.3841	0.0391	0.6008	-0.1018	-1.5642	0.0357	0.0007	-0.0069	0.0196	-0.1934
27	0.01	-0.12	-0.3548	0.0585	0.6469	-0.1649	-1.8232	0.0323	-0.0001	-0.0082	-0.0031	-0.2550
28	0.01	0.66	-0.3790	0.0580	0.6139	-0.1530	-1.6198	0.0424	0.0024	-0.0035	0.0566	-0.0819
29	0.01	1.39	-0.3928	0.0582	0.5877	-0.1482	-1.4962	0.0371	0.0008	-0.0071	0.0216	-0.1924
30	0.01	2.17	-0.4115	0.0573	0.5594	-0.1392	-1.3594	0.0448	0.0027	-0.0026	0.0603	-0.0574
31	0.01	2.97	-0.4300	0.0566	0.5245	-0.1316	-1.2198	0.0320	0.0006	-0.0069	0.0187	-0.2168
32	0.01	3.71	-0.4552	0.0554	0.4991	-0.1217	-1.0965	0.0393	0.0013	-0.0057	0.0331	-0.1452
33	0.01	4.50	-0.4793	0.0534	0.4627	-0.1114	-0.9653	0.0418	0.0015	-0.0056	0.0359	-0.1333
34	0.01	5.30	-0.5030	0.0511	0.4312	-0.1016	-0.8572	0.0418	0.0017	-0.0056	0.0407	-0.1333
35	0.01	6.17	-0.5299	0.0476	0.3989	-0.0898	-0.7528	0.0488	0.0027	-0.0030	0.0553	-0.0623
36	0.01	6.98	-0.5509	0.0453	0.3707	-0.0822	-0.6730	0.0373	0.0005	-0.0072	0.0134	-0.1923
37	0.01	7.79	-0.5823	0.0406	0.3343	-0.0697	-0.5740	0.0538	0.0031	-0.0022	0.0576	-0.0404
38	0.01	8.53	-0.6201	0.0361	0.3021	-0.0582	-0.4871	0.0492	0.0018	-0.0040	0.0366	-0.0814
39	0.01	9.40	-0.6678	0.0316	0.2652	-0.0473	-0.3971	0.0514	0.0029	-0.0024	0.0564	-0.0462
40	0.01	10.18	-0.7146	0.0275	0.2342	-0.0385	-0.3277	0.0491	0.0024	-0.0031	0.0489	-0.0639
41	0.01	11.02	-0.7696	0.0228	0.2034	-0.0296	-0.2642	0.0562	0.0033	-0.0004	0.0587	-0.0066
42	0.01	11.82	-0.8317	0.0166	0.1727	-0.0200	-0.2076	0.0612	0.0040	0.0002	0.0654	0.0031
43	0.01	12.57	-0.8921	0.0102	0.1494	-0.0114	-0.1675	0.0639	0.0039	-0.0001	0.0610	-0.0017
44	0.02	13.35	-0.9483	0.0013	0.1254	-0.0014	-0.1322	0.0723	0.0058	0.0074	0.0802	0.1022
45	0.02	14.09	-1.0124	-0.0097	0.0993	0.0096	-0.0980	0.0701	0.0055	0.0061	0.0785	0.0864
46	0.02	14.90	-1.0650	-0.0211	0.0750	0.0198	-0.0704	0.0662	0.0044	0.0018	0.0665	0.0268

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 86 1.05 1.7 0.0 0.2WOF16 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	15.63	-1.1227	-0.0347	0.0562	0.0309	-0.0501	0.0640	0.0055	0.0053	0.0859	0.0832
48	0.02	16.44	-1.1989	-0.0451	0.0301	0.0376	-0.0251	0.0665	0.0064	0.0057	0.0962	0.0851
49	0.01	17.23	-1.2592	-0.0510	0.0040	0.0405	-0.0032	0.0649	0.0071	0.0070	0.1094	0.1083
50	0.02	18.10	-1.3106	-0.0566	-0.0193	0.0432	0.0147	0.0540	0.0062	0.0048	0.1168	0.0880
51	0.01	18.92	-1.3782	-0.0612	-0.0475	0.0444	0.0345	0.0548	0.0070	0.0073	0.1277	0.1325
52	0.02	19.73	-1.4347	-0.0655	-0.0757	0.0457	0.0327	0.0533	0.0066	0.0082	0.1238	0.1531
53	0.02	20.12	-1.4511	-0.0672	-0.0813	0.0463	0.0360	0.0570	0.0066	0.0094	0.1158	0.1648

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
8			86		1.05		1.7	0.0	B2WOF16	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4			
1	0.01	-20.01	1.6584	0.0576	0.6047	0.0347	0.3646	-0.1135	-0.0125	0.0135	0.1082	-0.1170			
2	0.01	-19.84	1.6596	0.0568	0.6030	0.0342	0.3633	-0.0919	-0.0112	0.0120	0.1219	-0.1303			
3	0.01	-19.03	1.6407	0.0581	0.5555	0.0354	0.3632	-0.1074	-0.0135	0.0084	0.1257	-0.0783			
4	0.0	-18.23	1.6444	0.0582	0.5964	0.0354	0.3627	-0.1179	-0.0139	0.0096	0.1179	-0.0815			
5	0.01	-17.35	1.6293	0.0591	0.5891	0.0363	0.3616	-0.1049	-0.0125	0.0127	0.1148	-0.1167			
6	0.01	-16.56	1.6121	0.0601	0.5849	0.0373	0.3628	-0.1030	-0.0112	0.0151	0.1087	-0.1464			
7	0.01	-15.78	1.6175	0.0608	0.5829	0.0376	0.3604	-0.1023	-0.0120	0.0126	0.1173	-0.1233			
8	0.01	-14.96	1.5838	0.0617	0.5701	0.0390	0.3600	-0.1030	-0.0112	0.0151	0.1087	-0.1464			
9	0.01	-14.17	1.5846	0.0620	0.5756	0.0391	0.3633	-0.1007	-0.0101	0.0183	0.1003	-0.1822			
10	0.01	-13.35	1.6067	0.0625	0.5783	0.0389	0.3599	-0.0928	-0.0106	0.0145	0.1142	-0.1560			
11	0.01	-12.56	1.6051	0.0638	0.5820	0.0397	0.3626	-0.0872	-0.0088	0.0179	0.1009	-0.2058			
12	0.01	-11.81	1.6197	0.0646	0.5876	0.0399	0.3628	-0.0968	-0.0105	0.0167	0.1085	-0.1730			
13	0.0	-11.07	1.6199	0.0653	0.5861	0.0403	0.3618	-0.0836	-0.0093	0.0169	0.1112	-0.2027			
14	0.01	-10.31	1.6174	0.0658	0.5866	0.0407	0.3627	-0.0961	-0.0108	0.0149	0.1124	-0.1548			
15	0.01	-9.55	1.6053	0.0661	0.5847	0.0412	0.3642	-0.0868	-0.0093	0.0173	0.1071	-0.1990			
16	0.01	-8.82	1.6041	0.0667	0.5783	0.0416	0.3605	-0.0901	-0.0093	0.0177	0.1032	-0.1962			
17	0.01	-8.00	1.5770	0.0670	0.5723	0.0425	0.3629	-0.0901	-0.0093	0.0177	0.1032	-0.1962			
18	0.01	-7.23	1.5665	0.0674	0.5605	0.0430	0.3578	-0.0837	-0.0085	0.0187	0.1016	-0.2235			
19	0.01	-6.44	1.5318	0.0682	0.5505	0.0445	0.3594	-0.0839	-0.0085	0.0192	0.1013	-0.2294			
20	0.01	-5.63	1.5011	0.0696	0.5371	0.0464	0.3578	-0.0810	-0.0076	0.0207	0.0938	-0.2557			
21	0.01	-4.89	1.4711	0.0719	0.5307	0.0489	0.3607	-0.0837	-0.0085	0.0192	0.1016	-0.2295			
22	0.01	-4.10	1.4374	0.0731	0.5145	0.0509	0.3582	-0.0846	-0.0065	0.0216	0.0768	-0.2554			
23	0.01	-3.32	1.4117	0.0742	0.5063	0.0526	0.3586	-0.0920	-0.0057	0.0237	0.0620	-0.2581			
24	0.01	-2.47	1.3675	0.0739	0.4871	0.0540	0.3562	-0.0828	-0.0045	0.0262	0.0543	-0.3165			
25	0.01	-1.68	1.3285	0.0757	0.4711	0.0570	0.3546	-0.0875	-0.0070	0.0196	0.0800	-0.2245			
26	0.01	-0.86	1.2830	0.0789	0.4540	0.0615	0.3539	-0.0859	-0.0044	0.0248	0.0512	-0.2884			
27	0.01	-0.12	1.3647	0.1060	0.4534	0.0777	0.3616	-0.0650	-0.0050	0.0217	0.0588	-0.2550			
28	0.01	0.66	1.3275	0.1046	0.4692	0.0788	0.3535	-0.0794	-0.0037	0.0246	0.0466	-0.3104			
29	0.01	1.39	1.2734	0.1023	0.4470	0.0803	0.3510	-0.0795	-0.0037	0.0252	0.0465	-0.3171			
30	0.01	2.17	1.2275	0.1005	0.4190	0.0819	0.3414	-0.0794	-0.0037	0.0246	0.0466	-0.3104			
31	0.01	2.97	1.1695	0.0972	0.3924	0.0831	0.3355	-0.0896	-0.0045	0.0252	0.0502	-0.2817			
32	0.01	3.71	1.0965	0.0943	0.3659	0.0860	0.3337	-0.0862	-0.0045	0.0249	0.0522	-0.2886			
33	0.01	4.50	1.0254	0.0917	0.3407	0.0894	0.3322	-0.0862	-0.0045	0.0249	0.0522	-0.2886			
34	0.01	5.30	0.9579	0.0885	0.3146	0.0924	0.3284	-0.0795	-0.0039	0.0247	0.0491	-0.3108			
35	0.01	6.17	0.8762	0.0836	0.2829	0.0954	0.3228	-0.0761	-0.0037	0.0237	0.0486	-0.3120			
36	0.01	6.98	0.8148	0.0799	0.2594	0.0981	0.3184	-0.0857	-0.0039	0.0218	0.0455	-0.2549			
37	0.01	7.79	0.7532	0.0738	0.2345	0.0980	0.3113	-0.0670	-0.0021	0.0269	0.0313	-0.4011			
38	0.01	8.53	0.6772	0.0664	0.2056	0.0981	0.3035	-0.0803	-0.0038	0.0266	0.0473	-0.3318			
39	0.01	9.40	0.6168	0.0602	0.1774	0.0976	0.2977	-0.0651	-0.0020	0.0326	0.0307	-0.5009			
40	0.01	10.18	0.5437	0.0540	0.1507	0.0993	0.2771	-0.0605	-0.0039	0.0285	0.0645	-0.4717			
41	0.01	11.02	0.4756	0.0479	0.1216	0.1007	0.2556	-0.0769	-0.0078	0.0276	0.1014	-0.3586			
42	0.01	11.82	0.4031	0.0402	0.0927	0.0997	0.2300	-0.0871	-0.0087	0.0276	0.0999	-0.3166			
43	0.01	12.57	0.3371	0.0329	0.0699	0.0976	0.2074	-0.0820	-0.0094	0.0210	0.1146	-0.2558			
44	0.02	13.35	0.2713	0.0243	0.0456	0.0896	0.1681	-0.0797	-0.0087	0.0249	0.1092	-0.3130			
45	0.02	14.09	0.2235	0.0147	0.0238	0.0658	0.1064	-0.0879	-0.0094	0.0175	0.1069	-0.1992			
46	0.02	14.90	0.1660	0.0025	0.0018	0.0151	0.0109	-0.1002	-0.0089	0.0123	0.0888	-0.1229			

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 86 1.05 1.7 0.0 82W0F16 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	15.63	0.1054	-0.0092	-0.0211	-0.0873	-0.2000	-0.1100	-0.0089	0.0110	0.0809	-0.1004
48	0.02	16.46	0.0514	-0.0217	-0.0456	-0.4222	-0.8866	-0.0976	-0.0087	0.0145	0.0891	-0.1483
49	0.01	17.23	-0.0133	-0.0304	-0.0670	2.2857	5.0400	-0.1168	-0.0107	0.0112	0.0916	-0.0957
50	0.02	18.10	-0.0838	-0.0373	-0.0562	0.4451	1.1483	-0.0960	-0.0099	0.0209	0.1031	-0.2178
51	0.01	18.92	-0.1293	-0.0433	-0.1178	0.3349	0.9109	-0.1229	-0.0161	0.0089	0.1310	-0.0728
52	0.02	19.73	-0.2060	-0.0492	-0.1411	0.2388	0.6852	-0.1003	-0.0133	0.0124	0.1326	-0.1234
53	0.02	20.12	-0.2440	-0.0509	-0.1575	0.2086	0.6455	-0.1215	-0.0141	0.0148	0.1160	-0.1219

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION	
6		87	1.10	1.7	0.0	82WOF16	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
1	0.01	-19.95	0.1149	-0.3298	4.5781	-9.7589	-0.0230	0.9684	-2.8708			
2	0.02	-19.66	0.1425	-0.3305	4.6032	-9.7470	-0.0150	0.9702	-2.3193			
3	0.01	-18.89	0.1589	-0.4244	4.3920	-9.7144	-0.0270	0.9783	-2.6712			
4	0.0	-18.10	0.0806	-0.3418	4.2400	-9.7296	-0.0270	0.9901	-4.2412			
5	0.01	-17.20	0.1186	-0.3870	4.1414	-9.7054	-0.0140	0.9462	-3.2634			
6	0.01	-16.44	0.1031	-0.3083	3.9448	-9.7041	-0.0180	0.9551	-2.9907			
7	0.02	-15.61	0.0951	-0.1901	3.8679	-9.8375	-0.0020	0.9631	-1.9994			
8	0.02	-14.84	0.0697	-0.1676	3.7146	-9.8558	0.0030	0.9660	-2.4043			
9	0.01	-13.99	0.0391	-0.1757	3.5831	-9.8877	-0.0060	0.9557	-4.4946			
10	0.01	-13.20	0.0567	-0.2214	3.4190	-9.8809	0.0040	0.9645	-3.9044			
11	0.01	-12.38	0.0544	-0.2181	3.3476	-9.9059	0.0050	0.9584	-4.0103			
12	0.01	-11.66	0.0564	-0.1859	3.2579	-9.9173	0.0150	0.9474	-3.2972			
13	0.01	-10.87	0.0347	-0.2216	3.1447	-9.7649	0.0170	0.9358	-6.3856			
14	0.01	-10.15	0.0474	-0.1773	2.9584	-9.6711	0.0140	0.9364	-3.7418			
15	0.01	-9.35	0.0459	-0.1862	2.8960	-9.5577	0.0190	0.9147	-4.0579			
16	0.01	-8.60	0.0475	-0.1765	2.7744	-9.4075	0.0120	0.8973	-3.7158			
17	0.01	-7.82	0.0498	-0.1797	2.7286	-9.2984	0.0180	0.8904	-3.6088			
18	0.01	-7.00	0.0534	-0.2147	2.6199	-9.3101	0.0140	0.8877	-4.0217			
19	0.02	-6.23	0.0661	-0.1635	2.4337	-9.0354	0.0040	0.8624	-2.4741			
20	0.01	-5.43	0.0450	-0.1890	2.3213	-8.8081	0.0110	0.8348	-4.2000			
21	0.02	-4.69	0.0582	-0.1565	2.3547	-8.7878	0.0030	0.8069	-2.6887			
22	0.01	-3.90	0.0484	-0.1457	2.2338	-8.5386	0.0070	0.7893	-3.0116			
23	0.01	-3.08	0.0493	-0.1850	2.0474	-8.1827	0.0050	0.7619	-3.7529			
24	0.01	-2.30	0.0744	-0.2171	1.9329	-7.9574	0.0060	0.7445	-2.9188			
25	0.01	-1.48	0.0228	-0.1179	1.9207	-8.0243	0.0040	0.7515	-5.1719			
26	0.01	-0.71	0.0343	-0.1310	1.9060	-8.1897	0.0130	0.7681	-3.8198			
27	0.01	0.09	0.0214	-0.1119	1.7642	-7.8851	0.0100	0.7611	-5.2318			
28	0.01	0.83	0.0682	-0.2294	1.7025	-7.6708	0.0010	0.7499	-3.3648			
29	0.01	1.61	0.0345	-0.1433	1.4817	-7.2737	0.0120	0.7423	-4.1536			
30	0.01	2.39	0.0617	-0.2184	1.3438	-6.9967	0.0010	0.7236	-3.5394			
31	0.02	3.17	0.0886	-0.1880	1.1330	-6.5525	0.0030	0.7021	-2.1223			
32	0.01	3.91	0.0534	-0.1637	1.1529	-6.3655	0.0010	0.6929	-3.0667			
33	0.01	4.72	0.0392	-0.1369	0.9564	-5.8783	0.0070	0.6727	-3.4918			
34	0.01	5.53	0.0313	-0.1218	0.8413	-5.5342	0.0030	0.6512	-3.8920			
35	0.01	6.38	0.0338	-0.1273	0.7378	-5.3424	0.0030	0.6202	-3.7669			
36	0.01	7.16	0.0248	-0.0587	0.5186	-4.7396	0.0070	0.5698	-2.3677			
37	0.01	7.94	0.0186	-0.0590	0.5496	-4.6550	0.0030	0.5690	-3.1742			
38	0.02	8.78	0.0237	-0.0352	0.2572	-4.0695	0.0040	0.5210	-1.4844			
39	0.02	9.56	0.0553	-0.1064	0.1249	-3.7724	-0.0050	0.5091	-1.9244			
40	0.01	10.42	0.0278	-0.0569	-0.0065	-3.4589	-0.0010	0.4644	-2.0475			
41	0.01	11.17	-0.0136	0.0408	-0.2331	-3.0403	-0.0040	0.4344	-2.9441			
42	0.02	11.95	-0.0123	0.0562	-0.3712	-2.6920	-0.0090	0.4044	-4.5707			
43	0.02	12.77	0.0109	0.0167	-0.5729	-2.2465	-0.0090	0.3715	1.5358			
44	0.01	13.51	-0.0059	-0.0037	-0.5781	-2.1742	-0.0210	0.3707	0.6339			
45	0.02	14.29	0.0112	0.0953	-1.0143	-1.6316	-0.0160	0.3183	8.5107			
46	0.02	15.04	0.0330	-0.0362	-1.1269	-1.4710	-0.0320	0.3054	-1.0970			

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 87 1.10 1.7 0.0 02WOF16 0.0 20 0 20 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	15.86	0.0217	0.0776	-1.3012	-1.1679	-0.0210	0.2717	3.5770
48	0.01	16.63	0.0357	-0.0930	-1.4323	-0.7834	-0.0350	0.2447	-2.6045
49	0.02	17.42	0.0071	0.0860	-1.7976	-0.3660	-0.0360	0.1833	12.1211
50	0.01	18.28	0.0204	-0.0416	-1.9255	-0.1449	-0.0420	0.1731	-2.0373
51	0.01	19.11	0.0331	-0.1133	-2.2743	0.3167	-0.0480	0.1175	-3.4242
52	0.02	19.90	-0.0211	0.0775	-2.6185	0.6462	-0.0340	0.0647	-3.6749

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 87 1.10 1.7			0.0	B2WOF16	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCFF1	YCFF1	CNF2	CH2	CB2	XCFF2	YCFF2
1	0.01	-19.95	-0.2216	0.0030	0.8317	-0.0135	-3.7530	0.0436	0.0061	0.0091	0.1399	0.2094
2	0.02	-19.66	-0.2185	0.0031	0.8272	-0.0142	-3.7858	0.0611	0.0113	0.0153	0.1849	0.2497
3	0.01	-18.89	-0.2258	0.0040	0.8204	-0.0177	-3.6331	0.0557	0.0081	0.0059	0.1454	0.1052
4	0.0	-18.10	-0.2266	0.0054	0.8152	-0.0218	-3.5975	0.0517	0.0078	0.0067	0.1509	0.1301
5	0.01	-17.20	-0.2368	0.0074	0.7963	-0.0313	-3.3627	0.0343	0.0022	-0.0049	0.0641	-0.1420
6	0.01	-16.44	-0.2365	0.0078	0.7952	-0.0330	-3.3623	0.0317	0.0015	-0.0043	0.0473	-0.1368
7	0.02	-15.61	-0.2362	0.0086	0.7993	-0.0364	-3.3840	0.0144	-0.0027	-0.0108	-0.1875	-0.7501
8	0.02	-14.84	-0.2383	0.0095	0.8002	-0.0399	-3.3579	0.0140	-0.0022	-0.0093	-0.1571	-0.6668
9	0.01	-13.99	-0.2404	0.0114	0.7889	-0.0474	-3.2416	0.0132	-0.0035	-0.0121	-0.0379	-0.9168
10	0.01	-13.20	-0.2384	0.0118	0.7947	-0.0495	-3.3333	0.0172	-0.0033	-0.0073	-0.0174	-0.4226
11	0.01	-12.38	-0.2406	0.0132	0.7905	-0.0549	-3.2857	0.0156	-0.0002	-0.0061	-0.0128	-0.3911
12	0.01	-11.66	-0.2413	0.0142	0.7813	-0.0588	-3.2379	0.0031	-0.0015	-0.0120	-0.4839	-3.8603
13	0.01	-10.87	-0.2444	0.0155	0.7728	-0.0634	-3.1619	0.0024	-0.0009	-0.0148	-0.3750	-6.1668
14	0.01	-10.15	-0.2504	0.0165	0.7661	-0.0659	-3.0594	0.0086	-0.0010	-0.0086	-0.1163	-1.0040
15	0.01	-9.35	-0.2555	0.0180	0.7536	-0.0705	-2.9494	0.0028	-0.0014	-0.0108	-0.5000	-3.8454
16	0.01	-8.60	-0.2675	0.0193	0.7362	-0.0721	-2.7520	0.0015	-0.0011	-0.0146	0.7533	9.7332
17	0.01	-7.82	-0.2697	0.0204	0.7316	-0.0756	-2.7128	0.0116	-0.0023	-0.0045	-0.1983	-0.3909
18	0.01	-7.00	-0.2843	0.0227	0.7185	-0.0798	-2.5271	0.0088	-0.0012	-0.0094	-0.1364	-1.0645
19	0.02	-6.23	-0.2982	0.0240	0.7076	-0.0805	-2.3730	0.0146	-0.0021	-0.0064	-0.1438	-0.4408
20	0.01	-5.43	-0.3099	0.0254	0.6886	-0.0820	-2.2221	0.0123	-0.0019	-0.0075	-0.1545	-0.6099
21	0.02	-4.69	-0.3231	0.0268	0.6713	-0.0829	-2.0778	0.0085	-0.0016	-0.0080	-0.1882	-0.9374
22	0.01	-3.90	-0.3321	0.0288	0.6540	-0.0867	-1.9694	0.0049	-0.0016	-0.0090	-0.3265	-1.8301
23	0.01	-3.08	-0.3537	0.0325	0.6352	-0.0919	-1.7960	0.0124	-0.0008	-0.0082	-0.0645	-0.6587
24	0.01	-2.30	-0.3584	0.0355	0.6218	-0.0991	-1.7349	0.0140	0.0003	-0.0048	0.0214	-0.3454
25	0.01	-1.48	-0.3637	0.0408	0.6132	-0.1063	-1.5982	0.0035	-0.0014	-0.0085	-0.4000	-2.4382
26	0.01	-0.71	-0.3686	0.0543	0.6399	-0.1558	-1.8357	0.0029	-0.0027	-0.0109	-0.9310	-3.7702
27	0.01	0.09	-0.3579	0.0537	0.6138	-0.1500	-1.7151	0.0081	-0.0008	-0.0063	-0.0988	-0.7779
28	0.01	0.83	-0.3736	0.0534	0.5848	-0.1429	-1.5653	0.0138	0.0005	-0.0038	0.0362	-0.2755
29	0.01	1.61	-0.3877	0.0523	0.5595	-0.1349	-1.4432	0.0049	-0.0018	-0.0090	-0.3673	-1.8301
30	0.01	2.39	-0.4086	0.0516	0.5257	-0.1263	-1.2867	0.0149	0.0010	-0.0030	0.0671	-0.2037
31	0.02	3.17	-0.4407	0.0496	0.4893	-0.1125	-1.1102	0.0237	0.0019	-0.0025	0.0802	-0.1056
32	0.01	3.91	-0.4596	0.0486	0.4628	-0.1057	-1.0069	0.0155	0.0005	-0.0054	0.0323	-0.3507
33	0.01	4.72	-0.4832	0.0461	0.4331	-0.0954	-0.8963	0.0239	0.0034	0.0020	0.1423	0.0822
34	0.01	5.53	-0.5122	0.0441	0.3996	-0.0861	-0.7802	0.0145	0.0017	-0.0017	0.1172	-0.1151
35	0.01	6.38	-0.5417	0.0424	0.3729	-0.0783	-0.6884	0.0181	0.0021	-0.0005	0.1160	-0.0259
36	0.01	7.16	-0.5813	0.0400	0.3341	-0.0688	-0.5748	0.0012	-0.0020	-0.0094	-1.6667	-7.8334
37	0.01	7.94	-0.6099	0.0372	0.3095	-0.0610	-0.5074	0.0120	-0.0006	-0.0067	-0.0500	-0.5585
38	0.02	8.78	-0.6499	0.0338	0.2779	-0.0520	-0.4277	0.0136	0.0010	-0.0029	0.0735	-0.2109
39	0.02	9.56	-0.6865	0.0302	0.2475	-0.0440	-0.3606	0.0283	0.0046	0.0053	0.1625	0.1883
40	0.01	10.42	-0.7337	0.0276	0.2162	-0.0376	-0.2947	0.0136	0.0006	-0.0027	0.0441	-0.1962
41	0.01	11.17	-0.7929	0.0230	0.1840	-0.0290	-0.2321	0.0131	-0.0006	-0.0059	-0.0458	-0.4530
42	0.02	11.95	-0.8576	0.0169	0.1562	-0.0197	-0.1822	0.0142	-0.0006	-0.0051	-0.0423	-0.3569
43	0.02	12.77	-0.9020	0.0113	0.1349	-0.0125	-0.1496	0.0234	0.0010	-0.0003	0.0427	-0.0129
44	0.01	13.51	-0.9751	0.0	0.1054	0.0	-0.1081	0.0309	0.0013	0.0012	0.0421	0.0387
45	0.02	14.29	-1.0276	-0.0102	0.0860	0.0099	-0.0837	0.0326	0.0024	0.0049	0.0736	0.1492
46	0.02	15.04	-1.0799	-0.0223	0.0649	0.0207	-0.0601	0.0420	0.0026	0.0094	0.0619	0.2237

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RX10-6												
6 87 1.10 1.7 0.0 82NOF16 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	15.86	-1.1502	-0.0354	0.0410	0.0308	-0.0357	0.0264	-0.0012	-0.0008	-0.0455	-0.0304
48	0.01	16.63	-1.2103	-0.0432	0.0170	0.0357	-0.0141	0.0411	0.0006	0.0084	0.0146	0.2043
49	0.02	17.42	-1.2663	-0.0496	-0.0082	0.0392	0.0064	0.0320	-0.0009	0.0031	-0.0281	0.0957
50	0.01	18.28	-1.3179	-0.0541	-0.0344	0.0411	0.0261	0.0403	0.0001	0.0061	0.0025	0.1521
51	0.01	19.11	-1.3759	-0.0565	-0.0623	0.0411	0.0453	0.0432	0.0016	0.0106	0.0370	0.2453
52	0.02	19.90	-1.4261	-0.0597	-0.0862	0.0419	0.0604	0.0233	0.0003	0.0011	0.0129	0.0457

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 87 1.10 1.7			0.0	82WOF16	0.0	20	0	20	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	0.01	-19.95	1.7324	0.0522	0.6430	0.0301	0.3711	-0.1236	-0.0164	0.0037	0.1327	-0.0301
2	0.02	-19.66	1.7402	0.0523	0.6471	0.0301	0.3718	-0.1048	-0.0140	0.0081	0.1336	-0.0771
3	0.01	-18.89	1.7257	0.0530	0.6437	0.0307	0.3730	-0.1049	-0.0134	0.0081	0.1277	-0.0777
4	0.0	-18.10	1.7235	0.0544	0.6421	0.0316	0.3726	-0.1173	-0.0163	0.0054	0.1390	-0.0462
5	0.01	-17.20	1.7058	0.0552	0.6364	0.0324	0.3731	-0.0995	-0.0126	0.0122	0.1266	-0.1231
6	0.01	-16.44	1.7096	0.0559	0.6308	0.0327	0.3690	-0.1118	-0.0140	0.0083	0.1252	-0.0747
7	0.02	-15.61	1.6997	0.0575	0.6319	0.0338	0.3718	-0.1116	-0.0142	0.0077	0.1272	-0.0691
8	0.02	-14.84	1.6956	0.0576	0.6245	0.0340	0.3683	-0.1117	-0.0144	0.0077	0.1289	-0.0688
9	0.01	-13.99	1.6854	0.0586	0.6210	0.0348	0.3685	-0.1175	-0.0167	0.0054	0.1421	-0.0464
10	0.01	-13.20	1.6787	0.0593	0.6196	0.0353	0.3691	-0.0994	-0.0132	0.0117	0.1328	-0.1175
11	0.01	-12.38	1.6659	0.0603	0.6137	0.0362	0.3684	-0.0832	-0.0107	0.0128	0.1286	-0.1536
12	0.01	-11.66	1.6531	0.0610	0.6065	0.0369	0.3669	-0.0826	-0.0113	0.0109	0.1368	-0.1317
13	0.01	-10.87	1.6329	0.0618	0.6027	0.0378	0.3691	-0.0860	-0.0121	0.0113	0.1407	-0.1319
14	0.01	-10.15	1.6217	0.0627	0.5922	0.0387	0.3652	-0.0832	-0.0107	0.0128	0.1286	-0.1536
15	0.01	-9.35	1.6042	0.0631	0.5856	0.0393	0.3651	-0.0809	-0.0102	0.0161	0.1261	-0.1995
16	0.01	-8.60	1.5677	0.0637	0.5736	0.0406	0.3659	-0.0802	-0.0113	0.0143	0.1409	-0.1780
17	0.01	-7.82	1.5534	0.0644	0.5664	0.0415	0.3646	-0.0706	-0.0094	0.0155	0.1331	-0.2192
18	0.01	-7.00	1.5305	0.0652	0.5597	0.0426	0.3657	-0.0707	-0.0094	0.0155	0.1330	-0.2198
19	0.02	-6.23	1.5140	0.0679	0.5463	0.0448	0.3608	-0.0841	-0.0096	0.0153	0.1141	-0.1816
20	0.01	-5.43	1.4743	0.0692	0.5346	0.0469	0.3626	-0.0743	-0.0089	0.0159	0.1198	-0.2146
21	0.02	-4.69	1.4502	0.0721	0.5247	0.0497	0.3618	-0.0743	-0.0087	0.0159	0.1171	-0.2146
22	0.01	-3.90	1.4065	0.0711	0.5081	0.0506	0.3612	-0.0881	-0.0089	0.0169	0.1010	-0.1923
23	0.01	-3.08	1.3562	0.0726	0.4951	0.0535	0.3651	-0.0820	-0.0075	0.0186	0.0915	-0.2265
24	0.01	-2.30	1.3247	0.0741	0.4859	0.0559	0.3668	-0.0726	-0.0056	0.0205	0.0771	-0.2825
25	0.01	-1.48	1.3079	0.0827	0.4802	0.0632	0.3672	-0.0717	-0.0068	0.0174	0.0948	-0.2428
26	0.01	-0.71	1.3425	0.0992	0.4938	0.0739	0.3679	-0.0874	-0.0087	0.0139	0.0995	-0.1588
27	0.01	0.09	1.2944	0.0973	0.4729	0.0749	0.3639	-0.0816	-0.0068	0.0162	0.0833	-0.1986
28	0.01	0.83	1.2507	0.0953	0.4524	0.0762	0.3617	-0.0721	-0.0056	0.0181	0.0777	-0.2507
29	0.01	1.61	1.1953	0.0919	0.4242	0.0769	0.3599	-0.0825	-0.0057	0.0187	0.0691	-0.2268
30	0.01	2.39	1.1591	0.0906	0.4022	0.0782	0.3670	-0.0692	-0.0057	0.0195	0.0824	-0.2824
31	0.02	3.17	1.0778	0.0877	0.3728	0.0814	0.3659	-0.0703	-0.0040	0.0233	0.0569	-0.3311
32	0.01	3.91	1.0256	0.0845	0.3525	0.0824	0.3637	-0.0722	-0.0057	0.0181	0.0789	-0.2513
33	0.01	4.72	0.9409	0.0807	0.3196	0.0858	0.3397	-0.0730	-0.0049	0.0206	0.0671	-0.2819
34	0.01	5.53	0.8833	0.0779	0.2981	0.0882	0.3375	-0.0569	-0.0051	0.0190	0.0866	-0.3221
35	0.01	6.38	0.8095	0.0739	0.2689	0.0913	0.3322	-0.0687	-0.0051	0.0171	0.0742	-0.2490
36	0.01	7.16	0.7290	0.0692	0.2397	0.0949	0.3288	-0.0890	-0.0059	0.0170	0.0663	-0.1915
37	0.01	7.94	0.6616	0.0649	0.2188	0.0981	0.3306	-0.0687	-0.0057	0.0171	0.0830	-0.2490
38	0.02	8.78	0.5970	0.0593	0.1884	0.0993	0.3156	-0.0724	-0.0059	0.0182	0.0815	-0.2510
39	0.02	9.56	0.5457	0.0554	0.1663	0.1015	0.3052	-0.0663	-0.0059	0.0211	0.0890	-0.3184
40	0.01	10.42	0.4709	0.0499	0.1398	0.1060	0.2969	-0.0794	-0.0103	0.0208	0.1297	-0.2625
41	0.01	11.17	0.3971	0.0431	0.1103	0.1085	0.2778	-0.0843	-0.0095	0.0135	0.1127	-0.1603
42	0.02	11.95	0.3339	0.0367	0.0860	0.1099	0.2574	-0.0852	-0.0105	0.0173	0.1232	-0.2032
43	0.02	12.77	0.2841	0.0300	0.0616	0.1056	0.2167	-0.0878	-0.0103	0.0139	0.1173	-0.1588
44	0.01	13.51	0.2237	0.0200	0.0376	0.0894	0.1683	-0.0949	-0.0097	0.0142	0.1022	-0.1494
45	0.02	14.29	0.1594	0.0085	0.0141	0.0533	0.0885	-0.1046	-0.0123	0.0128	0.1176	-0.1228
46	0.02	15.04	0.1160	-0.0002	-0.0049	-0.0017	-0.0426	-0.1113	-0.0104	0.0112	0.0934	-0.1007

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 87.1,10 1.7 0.0 82WOF16 0.0 DEL1 DEL2 DEL3 DEL4 TRANSITION												
0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	15.86	0.0491	-0.0157	-0.0252	-0.5198	-0.5140	-0.0946	-0.0096	0.0123	0.1015	-0.1298
48	0.01	16.63	0.0146	-0.0241	-0.0417	-1.7721	-3.0638	-0.1080	-0.0084	0.0107	0.0778	-0.0992
49	0.02	17.42	-0.0622	-0.0322	-0.0685	0.5177	1.1017	-0.1134	-0.0144	0.0078	0.1270	-0.0689
50	0.01	18.28	-0.1127	-0.0369	-0.0864	0.3274	0.7662	-0.1193	-0.0168	0.0054	0.1408	-0.0457
51	0.01	19.11	-0.1775	-0.0448	-0.1165	0.2524	0.6566	-0.1052	-0.0135	0.0019	0.1283	-0.0185
52	0.02	19.90	-0.2381	-0.0477	-0.1402	0.2003	0.5890	-0.1196	-0.0126	0.0036	0.1054	-0.0305

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			88	0.85	1.7	0.0	82WOF16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	0.0	-19.90	0.0908	-0.2011	3.4239	-5.9742	0.0010	0.3028	-2.2150				
2	0.0	-19.58	0.0826	-0.2416	3.1607	-6.0337	0.0080	0.3031	-2.9254				
3	0.0	-18.84	0.1099	-0.2568	3.1668	-6.0243	0.0210	0.3020	-2.3372				
4	0.0	-17.97	0.1054	-0.2015	3.0846	-5.9142	0.0140	0.2976	-1.9123				
5	0.0	-17.12	0.0836	-0.1580	2.9175	-5.6533	0.0140	0.2902	-1.8904				
6	0.0	-16.27	0.0863	-0.1778	2.7520	-5.5306	0.0330	0.2935	-2.0605				
7	0.0	-15.48	0.0519	-0.1206	2.7046	-5.4363	0.0310	0.2761	-2.3249				
8	0.0	-14.69	0.0444	-0.0881	2.5071	-5.2187	0.0340	0.2825	-1.9856				
9	0.0	-13.84	0.0685	-0.1309	2.4265	-5.1224	0.0300	0.2810	-1.9109				
10	0.0	-13.00	0.0539	-0.1154	2.2104	-4.9163	0.0170	0.2882	-2.1421				
11	0.0	-12.20	0.0324	-0.0694	2.1177	-4.7956	0.0220	0.2817	-2.1407				
12	0.0	-11.44	0.0387	-0.1172	2.0753	-4.7232	0.0160	0.2740	-3.0279				
13	0.0	-10.66	0.0535	-0.1909	1.9450	-4.6098	0.0190	0.2647	-3.5682				
14	-0.02	-9.95	0.1663	-0.6677	1.6431	-5.0111	0.0610	0.2390	-4.0158				
15	-0.01	-9.19	0.0514	-0.2749	1.9624	-5.2861	0.0270	0.2225	-5.3494				
16	-0.01	-8.37	0.0305	-0.1907	1.6471	-5.4325	0.0170	0.2209	-6.2525				
17	0.0	-7.61	0.0232	-0.1045	1.8099	-5.3204	0.0060	0.2119	-4.5034				
18	0.0	-6.78	0.0294	-0.1301	1.6939	-5.1991	0.0080	0.2029	-4.4212				
19	0.0	-6.00	0.0450	-0.1500	1.6117	-5.0330	0.0070	0.1868	-3.3333				
20	0.0	-5.20	0.0308	-0.1171	1.5222	-4.8677	0.0080	0.1770	-3.8026				
21	0.0	-4.46	0.0152	-0.0853	1.4505	-4.7594	0.0060	0.1707	-5.6105				
22	0.0	-3.68	0.0276	-0.1436	1.3619	-4.7003	0.0080	0.1617	-5.2043				
23	0.0	-2.84	0.0355	-0.1277	1.2543	-4.5497	0.0090	0.1599	-3.5972				
24	-0.01	-2.06	0.0434	-0.2447	1.2612	-4.6144	0.0100	0.1711	-5.6396				
25	0.0	-1.26	0.0321	-0.1329	1.1739	-4.4932	0.0110	0.1799	-4.1414				
26	0.0	-0.46	0.0199	-0.1068	1.0711	-4.2721	0.0030	0.1688	-5.3698				
27	-0.01	0.32	0.0212	-0.1407	0.9257	-4.0326	0.0120	0.1583	-6.6358				
28	0.0	1.07	0.0238	-0.1043	0.8530	-3.8468	0.0080	0.1551	-4.3832				
29	0.0	1.86	0.0102	-0.0723	0.7477	-3.6254	0.0060	0.1471	-7.0863				
30	0.0	2.62	0.0275	-0.1425	0.5930	-3.2729	0.0010	0.1301	-5.1818				
31	0.0	3.42	0.0226	-0.1116	0.4692	-2.7977	0.0060	0.1192	-4.9398				
32	0.0	4.17	0.0288	-0.1073	0.3169	-2.4273	0.0030	0.1110	-3.7264				
33	0.0	4.95	0.0117	-0.0614	0.1528	-1.9747	0.0020	0.1002	-5.2462				
34	0.0	5.78	0.0087	-0.0562	0.0303	-1.5912	0.0	0.0887	-6.4575				
35	0.0	6.59	0.0049	-0.0529	-0.0957	-1.2379	0.0010	0.0783	-10.7878				
36	0.0	7.39	0.0100	-0.0560	-0.2355	-0.9752	0.0030	0.0782	-5.8000				
37	0.0	8.17	0.0056	-0.0128	-0.4784	-0.6350	0.0010	0.0770	-2.2929				
38	0.0	9.02	0.0032	-0.0415	-0.5945	-0.3690	0.0	0.0857	-12.9625				
39	0.0	9.81	0.0	-0.0170	-0.6960	0.0215	-0.0080	0.0911	-0.0170				
40	0.0	10.64	0.0014	-0.0530	-0.8549	0.3845	-0.0140	0.0922	-37.8245				
41	0.0	11.42	-0.0111	-0.0155	-1.0332	0.9095	-0.0200	0.0798	1.3928				
42	0.0	12.24	0.0010	-0.0184	-1.2603	1.2855	-0.0210	0.0670	-18.4000				
43	0.0	13.00	-0.0037	0.0402	-1.4012	1.6747	-0.0310	0.0557	-10.8595				
44	0.01	13.78	0.0104	0.0674	-1.5850	2.0130	-0.0240	0.0429	6.4846				
45	0.0	14.56	0.0074	0.0406	-1.7361	2.3245	-0.0330	0.0358	9.4919				
46	0.01	15.31	-0.0061	0.1045	-1.9339	2.4996	-0.0280	0.0213	-17.1377				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CUNT	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	88	0.85	1.7	0.0	82WOF16	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.01	16.10	0.0056	0.0941	-2.0246	2.7175	-0.0410	0.0116	16.8143		
48	0.01	16.93	0.0093	0.0690	-2.1323	3.1082	-0.0490	-0.0154	7.4172		
49	0.01	17.72	-0.0485	0.3459	-2.2517	2.9594	0.0100	-0.0147	-7.1320		
50	0.0	18.59	0.0050	0.0450	-2.3636	2.8731	-0.0440	-0.0097	9.0000		
51	0.0	19.38	-0.0068	0.0445	-2.4388	3.0343	-0.0330	-0.0181	-6.5471		
52	0.0	20.22	-0.0091	0.0477	-2.6204	3.3665	-0.0390	-0.0343	-5.2462		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 88 0.85 1.7			0.0	82XOF16	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	C81	XCFF1	YCPF1	CNF2	CH2	C82	XCFF2	YCPF2
1	0.0	-19.90	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0102	0.0052	-0.0084	-0.5098	0.8234
2	0.0	-19.58	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0203	0.0045	-0.0155	-0.2217	0.7618
3	0.0	-18.84	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0284	0.0027	-0.0235	-0.0951	0.8262
4	0.0	-17.97	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0219	0.0028	-0.0151	-0.1279	0.6894
5	0.0	-17.12	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0241	0.0005	-0.0193	-0.0207	0.8021
6	0.0	-16.27	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0387	-0.0049	-0.0272	0.1266	0.7027
7	0.0	-15.48	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0402	-0.0027	-0.0217	0.0672	0.5397
8	0.0	-14.64	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0395	-0.0036	-0.0240	0.0911	0.6066
9	0.0	-13.84	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0375	-0.0031	-0.0187	0.0827	0.4985
10	0.0	-13.00	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0174	0.0006	-0.0049	-0.0345	0.2815
11	0.0	-12.20	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0308	-0.0018	-0.0115	0.0584	0.3722
12	0.0	-11.44	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0215	-0.0005	-0.0085	0.0233	0.3937
13	0.0	-10.66	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0077	0.0002	-0.0031	-0.0260	0.3981
14	-0.02	-9.95	9.9999	9.9999	9.9999	9.9999	9.9999	0.0436	0.0012	0.0235	0.0275	0.5396
15	-0.01	-9.19	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0022	0.0009	0.0021	-0.4091	-0.9395
16	-0.01	-8.37	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0195	0.0004	-0.0029	-0.0205	0.1486
17	0.0	-7.61	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0167	0.0002	-0.0008	-0.0120	0.0458
18	0.0	-6.78	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0229	-0.0001	-0.0031	0.0044	0.1367
19	0.0	-6.00	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0102	0.0012	0.0000	-0.1176	-0.0001
20	0.0	-5.20	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0136	0.0007	0.0001	-0.0515	-0.0050
21	0.0	-4.46	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0185	0.0	-0.0007	0.0	0.0359
22	0.0	-3.68	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0219	0.0	-0.0006	0.0	0.0273
23	0.0	-2.84	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0188	0.0007	0.0003	-0.0372	-0.0178
24	-0.01	-2.06	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0123	0.0005	0.0015	-0.0407	-0.1221
25	0.0	-1.26	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0094	0.0036	0.0029	-0.3830	-0.3051
26	0.0	-0.46	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0159	0.0038	0.0018	-0.2390	-0.1133
27	-0.01	0.32	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0123	0.0021	0.0016	-0.1707	-0.1302
28	0.0	1.07	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0127	0.0038	0.0027	-0.2992	-0.2101
29	0.0	1.86	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0183	0.0011	-0.0005	-0.0601	0.0272
30	0.0	2.62	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0123	0.0029	0.0016	-0.2358	-0.1302
31	0.0	3.42	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0094	0.0034	0.0032	-0.3617	-0.3370
32	0.0	4.17	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0125	0.0028	0.0025	-0.2240	-0.2028
33	0.0	4.95	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0126	0.0025	0.0026	-0.1984	-0.2065
34	0.0	5.78	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0076	0.0029	0.0027	-0.3816	-0.3510
35	0.0	6.59	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0081	0.0038	0.0043	-0.4691	-0.5110
36	0.0	7.39	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0081	0.0038	0.0043	-0.4691	-0.5110
37	0.0	8.17	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0077	0.0029	0.0026	-0.3766	-0.3421
38	0.0	9.02	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0063	0.0036	0.0038	-0.5714	-0.6033
39	0.0	9.81	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0025	0.0033	0.0024	-1.3200	-0.9468
40	0.0	10.64	9.9999	9.9999	9.9999	9.9999	9.9999	0.0016	0.0050	0.0063	3.1250	3.4582
41	0.0	11.42	9.9999	9.9999	9.9999	9.9999	9.9999	-0.0018	0.0048	0.0063	-2.6667	-3.5001
42	0.0	12.24	9.9999	9.9999	9.9999	9.9999	9.9999	0.0003	0.0043	0.0045	14.3333	14.9999
43	0.0	13.00	9.9999	9.9999	9.9999	9.9999	9.9999	0.0048	0.0050	0.0061	1.0417	1.2707
44	-0.01	13.78	9.9999	9.9999	9.9999	9.9999	9.9999	0.0075	0.0057	0.0081	0.7600	1.0799
45	0.0	14.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0128	0.0050	0.0066	0.9406	0.9129
46	0.01	15.31	9.9999	9.9999	9.9999	9.9999	9.9999	0.0062	0.0045	0.0070	0.7258	1.1235

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 88 0.85 1.7			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
			0.0	B2WOF16	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	16.10	9.9999	9.9999	9.9999	9.9999	9.9999	0.0127	0.0056	0.0066	0.4409	0.5222
48	0.01	16.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0198	0.0067	0.0115	0.3384	0.5807
49	0.01	17.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.0160	0.0053	0.0074	0.3312	0.4645
50	0.0	18.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.0162	0.0049	0.0074	0.3025	0.4567
51	0.0	19.38	9.9999	9.9999	9.9999	9.9999	9.9999	0.0169	0.0062	0.0114	0.3669	0.6764
52	0.0	20.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.0175	0.0054	0.0095	0.3086	0.5446

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNLF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	0.85	1.7	0.0	0.82	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.0	-19.90	0.9844	0.0776	0.3784	0.0788	0.3844	-0.0240	-0.0052	-0.0083	0.2167	0.3457
2	0.0	-19.58	0.9794	0.0776	0.3799	0.0792	0.3878	-0.0240	-0.0052	-0.0083	0.2167	0.3457
3	0.0	-18.84	0.9793	0.0780	0.3716	0.0796	0.3795	-0.0361	-0.0067	-0.0124	0.1856	0.3443
4	0.0	-17.97	0.9571	0.0788	0.3651	0.0823	0.3815	-0.0237	-0.0054	-0.0091	0.2278	0.3838
5	0.0	-17.12	0.9338	0.0787	0.3521	0.0843	0.3770	-0.0319	-0.0067	-0.0113	0.2100	0.3552
6	0.0	-16.27	0.9110	0.0792	0.3381	0.0869	0.3711	-0.0376	-0.0049	-0.0075	0.1303	0.2002
7	0.0	-15.48	0.8900	0.0792	0.3290	0.0890	0.3696	-0.0200	-0.0031	-0.0072	0.1550	0.3582
8	0.0	-14.69	0.8519	0.0794	0.3190	0.0932	0.3744	-0.0330	-0.0049	-0.0080	0.1485	0.2423
9	0.0	-13.84	0.8360	0.0799	0.3084	0.0956	0.3689	-0.0210	-0.0026	-0.0039	0.1238	0.1856
10	0.0	-13.00	0.8123	0.0796	0.3013	0.0980	0.3709	-0.0255	-0.0026	-0.0034	0.1020	0.1332
11	0.0	-12.20	0.7895	0.0793	0.2874	0.1004	0.3640	-0.0206	-0.0031	-0.0048	0.1505	0.2313
12	0.0	-11.44	0.7664	0.0793	0.2816	0.1035	0.3674	-0.0117	-0.0026	-0.0050	0.2222	0.4272
13	0.0	-10.66	0.7372	0.0780	0.2697	0.1058	0.3659	-0.0217	-0.0016	-0.0014	0.0737	0.0659
14	-0.02	-9.95	0.7060	0.0768	0.2525	0.1088	0.3577	0.0001	-0.0005	-0.0001	-0.0000	-0.0668
15	-0.01	-9.19	0.7955	0.0757	0.2867	0.0952	0.3604	0.0135	0.0007	-0.0008	0.0519	-0.0594
16	-0.01	-8.37	0.8250	0.0756	0.3039	0.0916	0.3684	0.0	-0.0002	0.0	-0.0002	0.0
17	0.0	-7.61	0.8026	0.0744	0.2523	0.0927	0.3642	0.0137	-0.0003	-0.0008	-0.0219	-0.0609
18	0.0	-6.78	0.7795	0.0731	0.2887	0.0938	0.3704	0.0139	-0.0005	-0.0016	-0.0360	-0.1128
19	0.0	-6.00	0.7507	0.0719	0.2780	0.0958	0.3704	0.0039	-0.0003	0.0027	-0.0769	0.6922
20	0.0	-5.20	0.7243	0.0704	0.2682	0.0972	0.3704	0.0187	-0.0013	-0.0022	-0.0695	-0.1160
21	0.0	-4.46	0.7261	0.0702	0.2654	0.0967	0.3656	0.0051	-0.0023	-0.0013	-0.4510	-0.2550
22	0.0	-3.68	0.7128	0.0718	0.2596	0.1007	0.3642	0.0001	-0.0005	-0.0001	-5.0000	-0.6668
23	0.0	-2.84	0.6867	0.0756	0.2535	0.1101	0.3692	-0.0010	0.0010	0.0033	-1.0000	-3.2668
24	-0.01	-2.06	0.6916	0.1023	0.2606	0.1479	0.3767	0.0138	-0.0005	-0.0008	-0.0362	-0.0581
25	0.0	-1.26	0.6680	0.1051	0.2541	0.1573	0.3804	0.0126	0.0017	0.0025	0.1349	0.1983
26	0.0	-0.46	0.6477	0.1078	0.2446	0.1644	0.3777	0.0026	0.0024	0.0060	0.9231	2.2948
27	-0.01	0.32	0.6028	0.1339	0.2202	0.2221	0.3652	0.0124	0.0022	0.0024	0.1774	0.1961
28	0.0	1.07	0.5805	0.1282	0.2018	0.2208	0.3477	0.0169	0.0024	0.0019	0.1420	0.1143
29	0.0	1.86	0.5146	0.1154	0.1765	0.2243	0.3429	0.0124	0.0017	0.0024	0.1371	0.1961
30	0.0	2.62	0.4609	0.1049	0.1550	0.2276	0.3363	0.0161	0.0031	0.0044	0.1925	0.2711
31	0.0	3.42	0.3763	0.0880	0.1265	0.2339	0.3361	0.0066	0.0033	0.0070	0.5000	1.0605
32	0.0	4.17	0.3171	0.0721	0.0986	0.2274	0.3108	0.0290	0.0048	0.0053	0.1655	0.1815
33	0.0	4.95	0.2499	0.0544	0.0710	0.2177	0.2840	0.0162	0.0031	0.0044	0.1914	0.2715
34	0.0	5.78	0.1891	0.0394	0.0482	0.2084	0.2549	0.0164	0.0031	0.0044	0.1890	0.2661
35	0.0	6.59	0.1220	0.0234	0.0265	0.1918	0.2168	0.0204	0.0034	0.0064	0.1667	0.3136
36	0.0	7.39	0.0833	0.0116	0.0079	0.1393	0.0943	0.0380	0.0056	0.0076	0.1474	0.1990
37	0.0	8.17	0.0261	-0.0037	-0.0103	-0.1418	-0.3948	0.0206	0.0034	0.0065	0.1650	0.3138
38	0.0	9.02	-0.0209	-0.0183	-0.0245	0.8796	1.1705	0.0300	0.0034	0.0053	0.1133	0.1765
39	0.0	9.81	-0.0745	-0.0348	-0.0427	0.4671	0.5735	0.0198	0.0044	0.0089	0.2272	0.4494
40	0.0	10.64	-0.1220	-0.0514	-0.0617	0.4213	0.5093	0.0196	0.0041	0.0088	0.2092	0.4506
41	0.0	11.42	-0.2041	-0.0711	-0.0857	0.3484	0.4199	0.0293	0.0033	0.0052	0.1126	0.1762
42	0.0	12.24	-0.2627	-0.0868	-0.1092	0.3304	0.4158	0.0125	0.0007	0.0025	0.0560	0.1972
43	0.0	13.00	-0.3250	-0.0906	-0.1288	0.3026	0.3952	0.0136	-0.0012	-0.0016	-0.0882	-0.1153
44	0.01	13.78	-0.3831	-0.1098	-0.1523	0.2866	0.3474	0.0135	-0.0015	-0.0015	-0.1111	-0.1112
45	0.0	14.56	-0.4404	-0.1188	-0.1693	0.2698	0.3845	-0.0064	-0.0061	-0.0053	0.9531	0.8332
46	0.01	15.31	-0.4731	-0.1230	-0.1856	0.2600	0.3924	-0.0059	-0.0087	-0.0061	1.4746	1.0281

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	88	0.85	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	0.01	16.10	-0.4946	-0.1136	-0.1965	0.2297	0.3973	-0.0085	-0.0085	-0.0125	1.0000	1.4744
48	0.01	16.93	-0.5291	-0.1157	-0.2148	0.2187	0.4060	-0.0094	-0.0078	-0.0095	0.8298	1.0141
49	0.01	17.72	-0.5765	-0.1164	-0.2346	0.2019	0.4069	-0.0445	-0.0149	-0.0208	0.3348	0.4680
50	0.0	18.59	-0.4991	-0.0723	-0.2110	0.1449	0.4228	-0.0168	-0.0102	-0.0142	0.6071	0.8451
51	0.0	19.38	-0.5306	-0.0699	-0.2200	0.1317	0.4146	0.0016	-0.0062	-0.0032	-3.8750	-1.9793
52	0.0	20.22	-0.5555	-0.0671	-0.2347	0.1208	0.4225	0.0055	-0.0062	-0.0013	-1.1273	-0.2304

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	91	0.97	1.7	0.0	B2M0F16	0.0	10	0	10	0
										FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-0.01	-19.49	0.0720	-0.2488	3.9521	-7.8206	-0.0290	0.4100	-3.4556	
2	-0.01	-19.49	0.0979	-0.3270	3.9161	-7.7202	-0.0210	0.4122	-3.3608	
3	-0.01	-18.67	0.0963	-0.3128	3.7291	-7.7334	-0.0170	0.4251	-3.2484	
4	0.0	-17.83	0.0847	-0.2405	3.6213	-7.7305	-0.0140	0.4171	-2.8404	
5	-0.01	-16.94	0.0649	-0.2578	3.4944	-7.7988	-0.0110	0.4279	-3.9732	
6	0.0	-16.17	0.0990	-0.2486	3.3818	-7.8481	-0.0100	0.4375	-2.5111	
7	0.0	-15.34	0.0647	-0.1346	3.2557	-8.0345	-0.0130	0.4531	-2.0801	
8	0.0	-14.56	0.0580	-0.1232	3.2447	-8.1991	-0.0040	0.4526	-2.1241	
9	0.0	-13.74	0.0394	-0.0672	3.1539	-8.3939	-0.0150	0.4604	-1.7046	
10	0.0	-12.90	0.0508	-0.1551	3.0627	-8.5142	0.0	0.4690	-3.0535	
11	-0.01	-12.15	0.0366	-0.1822	2.9506	-8.6253	0.0100	0.4732	-4.9792	
12	0.0	-11.35	0.0504	-0.1755	2.8649	-8.4723	0.0120	0.4656	-3.4833	
13	-0.01	-10.64	0.0454	-0.1935	2.7722	-8.3415	0.0110	0.4525	-4.2634	
14	-0.01	-9.85	0.0340	-0.1966	2.5543	-8.0594	0.0120	0.4459	-5.7623	
15	0.0	-9.07	0.0390	-0.1226	2.4783	-7.7920	0.0080	0.4117	-3.1436	
16	-0.01	-8.28	0.0378	-0.1609	2.2571	-7.4134	0.0110	0.3903	-4.2571	
17	-0.01	-7.50	0.0355	-0.1717	2.1473	-7.1267	0.0120	0.3746	-4.8366	
18	0.0	-6.67	0.0386	-0.1610	2.0801	-6.9267	0.0070	0.3431	-4.1720	
19	0.0	-5.90	0.0462	-0.1607	1.9239	-6.5860	0.0100	0.3187	-3.4779	
20	0.0	-5.09	0.0501	-0.1761	1.8423	-6.4507	0.0450	0.3166	-3.5158	
21	0.0	-4.34	0.0407	-0.1630	1.6377	-5.9343	0.0270	0.2818	-4.0044	
22	0.0	-3.52	0.0382	-0.1435	1.5581	-5.8359	0.0130	0.2831	-3.7560	
23	0.0	-2.71	0.0245	-0.1103	1.5099	-5.8054	0.0080	0.2779	-4.5020	
24	0.0	-1.96	0.0347	-0.1186	1.4462	-5.6422	0.0100	0.2720	-3.4173	
25	0.0	-1.11	0.0387	-0.1542	1.3179	-5.3186	0.0110	0.2626	-3.9840	
26	0.0	-0.32	0.0351	-0.1231	1.1997	-5.0352	0.0120	0.2592	-3.5083	
27	0.0	0.45	0.0478	-0.1499	1.0356	-4.5504	0.0030	0.2433	-3.1364	
28	-0.01	1.21	0.0291	-0.1527	0.9119	-4.1783	0.0050	0.2315	-5.2488	
29	0.0	1.98	0.0489	-0.1654	0.7149	-3.7105	-0.0010	0.2160	-3.3636	
30	0.0	2.76	0.0214	-0.0999	0.5794	-3.3479	0.0040	0.2010	-4.6710	
31	0.0	3.55	0.0278	-0.1139	0.4160	-2.9112	0.0	0.1874	-4.0978	
32	-0.01	4.29	0.0215	-0.1351	0.2338	-2.4740	-0.0020	0.1778	-6.2837	
33	0.0	5.14	0.0167	-0.0684	0.1439	-2.0442	0.0030	0.1689	-4.0946	
34	0.0	5.93	0.0221	-0.0739	-0.0347	-1.5662	-0.0010	0.1641	-3.3457	
35	0.0	6.78	0.0182	-0.0975	-0.1811	-1.1823	-0.0020	0.1616	-5.3560	
36	0.0	7.56	0.0350	-0.1200	-0.3566	-0.8247	-0.0010	0.1564	-3.4286	
37	0.0	8.38	0.0363	-0.0798	-0.4777	-0.4400	-0.0040	0.1507	-2.1949	
38	0.0	9.20	-0.0011	-0.0135	-0.6430	-0.0067	0.0	0.1457	12.2364	
39	0.0	9.96	-0.0046	-0.0246	-0.8285	0.3800	-0.0050	0.1225	5.3391	
40	0.0	10.82	0.0163	-0.0618	-1.0329	0.9261	-0.0130	0.0969	-3.7926	
41	0.0	11.61	0.0271	-0.0599	-1.1572	1.4002	-0.0110	0.0792	-2.2118	
42	0.0	12.35	-0.0001	0.0121	-1.4007	1.8670	-0.0190	0.0642	-121.4000	
43	0.0	13.17	0.0088	0.0365	-1.6063	2.3558	-0.0300	0.0448	5.3647	
44	0.0	13.99	-0.0165	0.0931	-1.7430	2.7111	-0.0320	0.0331	-5.6424	
45	0.01	14.68	-0.0084	0.1097	-1.9757	3.1140	-0.0360	0.0157	-13.0667	
46	0.0	15.44	-0.0089	0.0884	-2.1746	3.5114	-0.0450	0.0047	-9.9393	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 91 0.97 1.7									
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION									
0.0 82WOF16 0.0 10 0 10 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	16.25	-0.0264	0.1719	-2.3827	3.8207	-0.0360	-0.0063	-6.5136
48	0.01	17.04	-0.0089	0.1064	-2.4566	4.0481	-0.0410	0.0006	-11.9618
49	0.01	17.90	-0.0025	0.0985	-2.6411	4.2534	-0.0490	-0.0131	-39.3999
50	0.01	18.73	-0.0539	0.2654	-2.8574	4.3803	-0.0160	-0.0243	-4.9250
51	0.01	19.48	-0.0158	0.1371	-2.9553	4.3674	-0.0590	-0.0198	-8.6785
52	0.01	20.33	-0.0479	0.1940	-3.1107	4.6079	-0.0490	-0.0380	-4.0514

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	91	0.97	1.7	0.0	B2HOF16	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CNF1	CNF1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-0.01	-19.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.0582	0.0105	0.0066	0.1804	0.1133
2	-0.01	-19.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.0629	0.0087	-0.0013	0.1383	-0.0213
3	-0.01	-18.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0494	0.0081	-0.0034	0.1640	-0.0696
4	0.0	-17.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.0417	0.0052	0.0005	0.1247	0.0119
5	-0.01	-16.94	9.9999	9.9999	9.9999	9.9999	9.9999	0.0364	0.0054	-0.0074	0.1484	-0.0205
6	0.0	-16.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.0272	0.0030	-0.0091	0.1103	-0.3359
7	0.0	-15.34	9.9999	9.9999	9.9999	9.9999	9.9999	0.0179	0.0016	-0.0166	0.0894	-0.9294
8	0.0	-14.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0042	-0.0007	-0.0228	-0.1667	-5.4287
9	0.0	-13.74	9.9999	9.9999	9.9999	9.9999	9.9999	0.0051	-0.0007	-0.0207	-0.1373	-4.0589
10	0.0	-12.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0208	0.0015	-0.0113	0.0721	-0.5418
11	-0.01	-12.15	9.9999	9.9999	9.9999	9.9999	9.9999	0.0185	0.0006	-0.0132	0.0324	-0.7154
12	0.0	-11.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.0215	0.0008	-0.0085	0.0372	-0.3970
13	-0.01	-10.64	9.9999	9.9999	9.9999	9.9999	9.9999	0.0121	-0.0002	-0.0154	-0.0165	-1.2701
14	-0.01	-9.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.0204	-0.0003	-0.0095	-0.0147	-0.4658
15	0.0	-9.07	9.9999	9.9999	9.9999	9.9999	9.9999	0.0154	-0.0006	-0.0116	-0.0390	-0.7512
16	-0.01	-8.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.0100	0.0	-0.0108	0.0	-0.6001
17	-0.01	-7.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0165	-0.0004	-0.0102	-0.0242	-0.6183
18	0.0	-6.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0165	-0.0003	-0.0104	-0.0182	-0.6304
19	0.0	-5.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0170	0.0	-0.0069	0.0	-0.4080
20	0.0	-5.09	9.9999	9.9999	9.9999	9.9999	9.9999	0.0264	-0.0004	-0.0053	-0.0152	-0.2009
21	0.0	-4.34	9.9999	9.9999	9.9999	9.9999	9.9999	0.0267	-0.0007	-0.0063	-0.0262	-0.2361
22	0.0	-3.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.0223	0.0006	-0.0058	0.0269	-0.2587
23	0.0	-2.71	9.9999	9.9999	9.9999	9.9999	9.9999	0.0202	-0.0012	-0.0082	-0.0594	-0.4044
24	0.0	-1.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.0212	-0.0007	-0.0067	-0.0330	-0.3177
25	0.0	-1.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.0241	-0.0006	-0.0071	-0.0249	-0.2933
26	0.0	-0.32	9.9999	9.9999	9.9999	9.9999	9.9999	0.0242	-0.0006	-0.0075	-0.0248	-0.3114
27	0.0	0.45	9.9999	9.9999	9.9999	9.9999	9.9999	0.0266	0.0004	-0.0062	0.0150	-0.2345
28	-0.01	1.21	9.9999	9.9999	9.9999	9.9999	9.9999	0.0296	0.0027	-0.0018	0.0912	-0.0621
29	0.0	1.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.0323	0.0030	-0.0011	0.0929	-0.0352
30	0.0	2.76	9.9999	9.9999	9.9999	9.9999	9.9999	0.0222	0.0006	-0.0050	0.0270	-0.2253
31	0.0	3.55	9.9999	9.9999	9.9999	9.9999	9.9999	0.0233	0.0014	-0.0040	0.0601	-0.1732
32	-0.01	4.29	9.9999	9.9999	9.9999	9.9999	9.9999	0.0309	0.0029	-0.0010	0.0939	-0.0325
33	0.0	5.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.0235	0.0013	-0.0051	0.0553	-0.2157
34	0.0	5.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0263	0.0017	-0.0050	0.0646	-0.1915
35	0.0	6.78	9.9999	9.9999	9.9999	9.9999	9.9999	0.0247	0.0019	-0.0042	0.0769	-0.1688
36	0.0	7.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0463	0.0042	-0.0009	0.0907	-0.0188
37	0.0	8.38	9.9999	9.9999	9.9999	9.9999	9.9999	0.0326	0.0029	-0.0019	0.0890	-0.0594
38	0.0	9.20	9.9999	9.9999	9.9999	9.9999	9.9999	0.0284	0.0023	-0.0018	0.0810	-0.0647
39	0.0	9.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.0361	0.0040	0.0010	0.1108	0.0285
40	0.0	10.82	9.9999	9.9999	9.9999	9.9999	9.9999	0.0375	0.0043	0.0004	0.1147	0.0239
41	0.0	11.61	9.9999	9.9999	9.9999	9.9999	9.9999	0.0419	0.0047	0.0004	0.1122	0.0086
42	0.0	12.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.0393	0.0045	-0.0005	0.1145	-0.0128
43	0.0	13.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.0403	0.0058	0.0009	0.1439	0.0230
44	0.0	13.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0393	0.0058	-0.0004	0.1476	-0.0103
45	-0.01	14.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.0326	0.0056	-0.0017	0.1718	-0.0533
46	0.0	15.44	9.9999	9.9999	9.9999	9.9999	9.9999	0.0444	0.0086	0.0018	0.1937	0.0404

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	91	0.97	1.7	0.0	82WOF16	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	16.25	9.9999	9.9999	9.9999	9.9999	9.9999	0.0474	0.0072	0.0016	0.1519	0.0336
48	0.01	17.04	9.9999	9.9999	9.9999	9.9999	9.9999	0.0580	0.0080	0.0050	0.1379	0.0867
49	0.01	17.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0718	0.0113	0.0120	0.1574	0.1675
50	0.01	18.73	9.9999	9.9999	9.9999	9.9999	9.9999	0.0514	0.0070	0.0031	0.1362	0.0608
51	0.01	19.48	9.9999	9.9999	9.9999	9.9999	9.9999	0.0613	0.0082	0.0090	0.1338	0.1472
52	0.01	20.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0531	0.0068	0.0080	0.1281	0.1505

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	91	0.97	1.7	0.0	B2W0F16	0.0	10	0	10	0	FIXED	
PDINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	-0.01	-19.49	1.3225	0.0702	0.4769	0.0531	0.3606	-0.1058	-0.0125	0.0005	0.1181	-0.0052
2	-0.01	-19.49	1.3225	0.0702	0.4765	0.0531	0.3606	-0.1071	-0.0116	0.0053	0.1083	-0.0496
3	-0.01	-18.67	1.3195	0.0702	0.4684	0.0532	0.3550	-0.0995	-0.0116	0.0044	0.1166	-0.0447
4	0.0	-17.83	1.2918	0.0708	0.4598	0.0548	0.3560	-0.1063	-0.0125	0.0026	0.1176	-0.0243
5	-0.01	-16.94	1.2945	0.0707	0.4590	0.0546	0.3546	-0.0951	-0.0116	0.0019	0.1220	-0.0201
6	0.0	-16.17	1.3014	0.0705	0.4580	0.0542	0.3520	-0.0857	-0.0095	0.0074	0.1109	-0.0869
7	0.0	-15.34	1.3242	0.0707	0.4656	0.0534	0.3516	-0.0998	-0.0105	0.0057	0.1052	-0.0576
8	0.0	-14.56	1.3331	0.0714	0.4693	0.0536	0.3520	-0.0788	-0.0086	0.0092	0.1091	-0.1173
9	0.0	-13.74	1.3612	0.0710	0.4755	0.0522	0.3493	-0.0969	-0.0095	0.0087	0.0980	-0.0899
10	0.0	-12.90	1.3568	0.0708	0.4706	0.0522	0.3468	-0.0967	-0.0095	0.0087	0.0982	-0.0897
11	-0.01	-12.15	1.3802	0.0709	0.4718	0.0514	0.3418	-0.0816	-0.0086	0.0069	0.1054	-0.0847
12	0.0	-11.35	1.3509	0.0707	0.4628	0.0523	0.3426	-0.0785	-0.0081	0.0091	0.1032	-0.1165
13	-0.01	-10.64	1.3332	0.0714	0.4509	0.0536	0.3382	-0.0964	-0.0094	0.0087	0.0975	-0.0900
14	-0.01	-9.85	1.2794	0.0712	0.4406	0.0548	0.3391	-0.0718	-0.0063	0.0110	0.0877	-0.1529
15	0.0	-9.07	1.2500	0.0721	0.4197	0.0577	0.3358	-0.0890	-0.0086	0.0078	0.0966	-0.0881
16	-0.01	-8.28	1.2162	0.0730	0.4016	0.0600	0.3302	-0.0790	-0.0061	0.0099	0.0772	-0.1250
17	-0.01	-7.50	1.1686	0.0747	0.3829	0.0639	0.3277	-0.0797	-0.0061	0.0119	0.0765	-0.1498
18	0.0	-6.67	1.1360	0.0796	0.3705	0.0701	0.3262	-0.0650	-0.0048	0.0115	0.0738	-0.1776
19	0.0	-5.90	1.0828	0.0874	0.3544	0.0807	0.3273	-0.0731	-0.0040	0.0137	0.0547	-0.1880
20	0.0	-5.09	1.0355	0.0959	0.3375	0.0826	0.3260	-0.0725	-0.0042	0.0117	0.0579	-0.1620
21	0.0	-4.34	0.9831	0.1015	0.3176	0.1032	0.3230	-0.0730	-0.0044	0.0138	0.0603	-0.1887
22	0.0	-3.52	1.0055	0.1408	0.3360	0.1400	0.3342	-0.0659	-0.0034	0.0142	0.0516	-0.2161
23	0.0	-2.71	0.9862	0.1345	0.3319	0.1364	0.3366	-0.0651	-0.0046	0.0115	0.0707	-0.1768
24	0.0	-1.96	0.9423	0.1252	0.3163	0.1329	0.3357	-0.0658	-0.0040	0.0142	0.0608	-0.2154
25	0.0	-1.11	0.6909	0.1191	0.2912	0.1337	0.3268	-0.0565	-0.0032	0.0140	0.0547	-0.2394
26	0.0	-0.32	0.8348	0.1118	0.2678	0.1339	0.3208	-0.0585	-0.0040	0.0140	0.0684	-0.2394
27	0.0	0.45	0.7777	0.1049	0.2390	0.1349	0.3074	-0.0481	-0.0022	0.0161	0.0457	-0.3341
28	-0.01	1.21	0.7140	0.0975	0.2096	0.1366	0.2936	-0.0481	-0.0013	0.0154	0.0270	-0.3196
29	0.0	1.98	0.6484	0.0875	0.1777	0.1349	0.2740	-0.0564	-0.0005	0.0183	0.0089	-0.3246
30	0.0	2.76	0.5678	0.0760	0.1468	0.1338	0.2585	-0.0564	-0.0012	0.0184	0.0213	-0.3264
31	0.0	3.55	0.5040	0.0649	0.1167	0.1288	0.2316	-0.0527	-0.0008	0.0185	0.0152	-0.3518
32	-0.01	4.29	0.4292	0.0534	0.0877	0.1244	0.2044	-0.0530	-0.0012	0.0199	0.0226	-0.3762
33	0.0	5.14	0.3500	0.0407	0.0600	0.1163	0.1715	-0.0597	-0.0013	0.0168	0.0218	-0.2815
34	0.0	5.93	0.2857	0.0240	0.0365	0.0840	0.1292	-0.0450	-0.0014	0.0177	0.0311	-0.3935
35	0.0	6.78	0.2313	0.0102	0.0160	0.0441	0.0691	-0.0450	-0.0020	0.0177	0.0444	-0.3935
36	0.0	7.56	0.1621	0.0029	-0.0082	0.0179	-0.0505	-0.0377	-0.0012	0.0181	0.0318	-0.4811
37	0.0	8.38	0.0964	-0.0088	-0.0270	-0.0413	-0.2799	-0.0378	-0.0012	0.0182	0.0317	-0.4816
38	0.0	9.20	0.0425	-0.0208	-0.0496	-0.4894	-1.1680	-0.0494	-0.0006	0.0195	0.0121	-0.3955
39	0.0	9.96	-0.0226	-0.0384	-0.0730	1.6991	3.2314	-0.0463	-0.0004	0.0219	0.0086	-0.4724
40	0.0	10.82	-0.1014	-0.0463	-0.0943	0.4566	0.9299	-0.0421	-0.0021	0.0207	0.0499	-0.4910
41	0.0	11.61	-0.1681	-0.0562	-0.1264	0.3343	0.7520	-0.0417	-0.0062	0.0214	0.1487	-0.5133
42	0.0	12.35	-0.2478	-0.0629	-0.1532	0.2538	0.6181	-0.0559	-0.0076	0.0185	0.1360	-0.3305
43	0.0	13.17	-0.3123	-0.0687	-0.1816	0.2200	0.5814	-0.0663	-0.0053	0.0144	0.0799	-0.2173
44	0.0	13.90	-0.3863	-0.0760	-0.2072	0.1967	0.5364	-0.0828	-0.0056	0.0063	0.0676	-0.0762
45	0.01	14.68	-0.4474	-0.0840	-0.2325	0.1878	0.5205	-0.0877	-0.0047	0.0095	0.0536	-0.1081
46	0.0	15.44	-0.5124	-0.0900	-0.2556	0.1756	0.4989	-0.0992	-0.0078	-0.0025	0.0786	0.0247

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 91 0.97 1.7 0.0 82WOF16 0.0 10 0 10 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	16.25	-0.5688	-0.0936	-0.2798	0.1646	0.4920	-0.1100	-0.0106	-0.0031	0.0964	0.0278
48	0.01	17.04	-0.6192	-0.0970	-0.3012	0.1567	0.4865	-0.0983	-0.0112	-0.0045	0.1139	0.0453
49	0.01	17.90	-0.6695	-0.1030	-0.3165	0.1538	0.4727	-0.0982	-0.0120	-0.0044	0.1222	0.0450
50	0.01	18.73	-0.7101	-0.1096	-0.3301	0.1543	0.4649	-0.1051	-0.0127	-0.0063	0.1208	0.0601
51	0.01	19.48	-0.6708	-0.1099	-0.3162	0.1638	0.4714	-0.0929	-0.0117	0.0035	0.1259	-0.0382
52	0.01	20.33	-0.7164	-0.1104	-0.3321	0.1541	0.4636	-0.0827	-0.0098	0.0063	0.1185	-0.0767

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		92	1.01	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
1	0.0	-19.87	0.1132	-0.2644	4.1032	-8.3751	-0.0360	0.4746	-2.3364			
2	0.0	-19.50	0.1071	-0.3129	3.9971	-8.1886	-0.0320	0.4778	-2.9219			
3	0.0	-18.73	0.0732	-0.2414	4.0310	-8.4450	-0.0190	0.4859	-3.2989			
4	0.0	-17.93	0.0954	-0.2195	3.8097	-8.5342	-0.0340	0.4982	-2.3015			
5	0.01	-17.06	0.0901	-0.1411	3.7094	-8.7227	-0.0420	0.5082	-1.5665			
6	0.0	-16.27	0.0893	-0.2260	3.6629	-8.9446	-0.0250	0.5066	-2.5310			
7	0.0	-15.44	0.1054	-0.2421	3.5493	-9.0025	-0.0150	0.5134	-2.2135			
8	0.0	-14.66	0.0875	-0.2425	3.4719	-9.1562	-0.0060	0.5158	-2.7714			
9	-0.01	-13.81	0.0620	-0.2388	3.3073	-9.0626	0.0040	0.5142	-3.8516			
10	-0.01	-12.99	0.0548	-0.2027	3.2327	-8.9792	0.0090	0.5066	-3.6993			
11	-0.01	-12.20	0.0667	-0.2353	3.0657	-8.8364	0.0140	0.5011	-3.5289			
12	-0.01	-11.43	0.0626	-0.2176	2.9120	-8.5952	0.0120	0.4900	-3.4767			
13	0.0	-10.68	0.0585	-0.1899	2.7977	-8.4362	0.0150	0.4814	-3.2462			
14	0.0	-9.95	0.0570	-0.1568	2.6736	-8.2395	0.0140	0.4762	-2.7509			
15	-0.01	-9.16	0.0448	-0.1837	2.5655	-7.8967	0.0130	0.4632	-4.1009			
16	-0.01	-8.36	0.0525	-0.1925	2.3582	-7.5979	0.0150	0.4498	-3.6667			
17	0.0	-7.59	0.0378	-0.1569	2.2122	-7.3185	0.0110	0.4212	-4.1513			
18	0.0	-6.76	0.0506	-0.1638	2.0599	-7.0344	0.0070	0.4000	-3.2379			
19	0.0	-5.98	0.0362	-0.1257	1.9628	-6.8204	0.0030	0.3836	-3.4718			
20	0.0	-5.17	0.0462	-0.1715	1.8575	-6.5239	0.0030	0.3624	-3.5577			
21	-0.01	-4.45	0.0428	-0.1759	1.9218	-7.0030	0.0130	0.3590	-4.1103			
22	-0.01	-3.68	0.0443	-0.1950	1.7457	-6.6654	0.0170	0.3489	-4.4023			
23	0.0	-2.80	0.0527	-0.1878	1.6467	-6.3788	0.0170	0.3347	-3.5632			
24	0.0	-2.06	0.0423	-0.1592	1.5084	-6.0362	0.0180	0.3352	-3.7641			
25	0.0	-1.21	0.0686	-0.2250	1.4007	-5.6595	0.0080	0.3274	-3.2805			
26	0.0	-0.42	0.0519	-0.1766	1.2307	-5.2346	0.0150	0.3191	-3.4039			
27	0.0	0.35	0.0538	-0.1603	1.1140	-4.8251	0.0160	0.3116	-2.9799			
28	-0.01	1.12	0.0385	-0.1759	0.9267	-4.3949	0.0130	0.2984	-4.5688			
29	0.0	1.90	0.0406	-0.1408	0.7627	-3.9254	0.0140	0.2863	-3.4670			
30	0.0	2.67	0.0507	-0.1540	0.6650	-3.4837	0.0070	0.2744	-3.0371			
31	0.0	3.47	0.0413	-0.1218	0.4789	-2.9752	0.0070	0.2596	-2.9496			
32	0.0	4.22	0.0317	-0.1334	0.2962	-2.5823	0.0040	0.2530	-4.2076			
33	0.0	5.05	0.0403	-0.1294	0.1063	-2.0555	0.0070	0.2492	-3.2114			
34	0.0	5.85	0.0294	-0.0652	-0.0154	-1.5482	0.0030	0.2395	-2.3524			
35	0.0	6.65	0.0259	-0.0762	-0.2250	-1.2498	0.0070	0.2386	-2.9444			
36	0.0	7.48	0.0270	-0.0928	-0.3798	-0.7032	0.0010	0.2330	-3.4370			
37	0.0	8.28	0.0166	-0.0542	-0.4457	-0.5028	0.0020	0.2319	-3.2675			
38	0.0	9.09	0.0186	-0.0770	-0.6766	-0.1086	-0.0010	0.2147	-4.1419			
39	0.0	9.89	0.0257	-0.0540	-0.7695	0.2504	-0.0050	0.1959	-2.1004			
40	0.0	10.72	0.0177	-0.0638	-0.9610	0.0635	-0.0070	0.1853	-3.0034			
41	0.0	11.52	0.0369	-0.0657	-1.1777	1.2405	-0.0100	0.1579	-1.7744			
42	0.0	12.30	0.0183	-0.0256	-1.4603	1.7895	-0.0190	0.1265	-1.6186			
43	0.01	13.08	0.0105	0.0813	-1.5814	2.2619	-0.0220	0.1260	7.7429			
44	0.01	13.86	-0.0068	0.1025	-1.7990	2.7625	-0.0330	0.1040	-15.0765			
45	0.0	14.62	-0.0136	0.0940	-2.0212	3.1357	-0.0410	0.0916	-6.9147			
46	0.01	15.40	-0.0245	0.1423	-2.2305	3.5527	-0.0360	0.0749	-5.8082			

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 92 1.01 1.7 0.0 B2WOF16 0.0 10 0 10 0 FIXED									
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	16.19	-0.0213	0.1808	-2.3874	3.9433	-0.0330	0.0601	-8.4892
48	0.01	16.99	-0.0258	0.2341	-2.5868	4.2174	-0.0380	0.0448	-9.0744
49	0.01	17.81	-0.0311	0.2285	-2.7447	4.4836	-0.0280	0.0223	-7.3485
50	0.01	18.68	-0.0385	0.2009	-2.9942	4.7488	-0.0350	0.0038	-5.2182
51	0.01	19.45	-0.0548	0.2277	-3.1409	4.8892	-0.0320	-0.0109	-4.1555
52	0.0	20.14	-0.0265	0.0751	-3.2173	4.6132	-0.0690	-0.0013	-2.8340

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	92	1.01	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNFI	CHI	CBI	YCPF1	YCPF1	CNF2	CH2	CBI	XCPF2	YCPF2
1	0.0	-19.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.0572	0.0102	0.0032	0.1783	0.0552
2	0.0	-19.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0517	0.0079	-0.0020	0.1528	-0.0382
3	0.0	-18.73	9.9999	9.9999	9.9999	9.9999	9.9999	0.0439	0.0040	-0.0025	0.0911	-0.0563
4	0.0	-17.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0336	0.0037	-0.0106	0.1101	-0.3156
5	0.01	-17.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.0330	0.0019	-0.0131	0.0576	-0.3971
6	0.0	-16.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.0248	-0.0021	-0.0173	-0.0847	-0.6990
7	0.0	-15.44	9.9999	9.9999	9.9999	9.9999	9.9999	0.0267	-0.0014	-0.0143	-0.0524	-0.5357
8	0.0	-14.66	9.9999	9.9999	9.9999	9.9999	9.9999	0.0290	-0.0010	-0.0124	-0.0345	-0.4289
9	-0.01	-13.81	9.9999	9.9999	9.9999	9.9999	9.9999	0.0233	-0.0012	-0.0113	-0.0515	-0.4865
10	-0.01	-12.99	9.9999	9.9999	9.9999	9.9999	9.9999	0.0240	-0.0019	-0.0139	-0.0792	-0.5793
11	-0.01	-12.20	9.9999	9.9999	9.9999	9.9999	9.9999	0.0242	-0.0021	-0.0148	-0.0868	-0.6131
12	-0.01	-11.43	9.9999	9.9999	9.9999	9.9999	9.9999	0.0260	-0.0005	-0.0113	-0.0192	-0.4360
13	0.0	-10.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.0235	-0.0012	-0.0123	-0.0511	-0.5221
14	0.0	-9.95	9.9999	9.9999	9.9999	9.9999	9.9999	0.0243	-0.0006	-0.0101	-0.0247	-0.4158
15	-0.01	-9.16	9.9999	9.9999	9.9999	9.9999	9.9999	0.0196	-0.0004	-0.0135	-0.0204	-0.6872
16	-0.01	-8.36	9.9999	9.9999	9.9999	9.9999	9.9999	0.0240	-0.0007	-0.0147	-0.0292	-0.6126
17	0.0	-7.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.0219	-0.0004	-0.0115	-0.0183	-0.5252
18	0.0	-6.76	9.9999	9.9999	9.9999	9.9999	9.9999	0.0262	-0.0007	-0.0072	-0.0267	-0.4737
19	0.0	-5.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.0256	-0.0007	-0.0103	-0.0273	-0.4012
20	0.0	-5.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.0261	0.0	-0.0068	0.0	-0.2607
21	-0.01	-4.45	9.9999	9.9999	9.9999	9.9999	9.9999	0.0273	0.0	-0.0062	0.0	-0.2272
22	-0.01	-3.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.0315	-0.0002	-0.0067	-0.0063	-0.2128
23	0.0	-2.80	9.9999	9.9999	9.9999	9.9999	9.9999	0.0289	-0.0002	-0.0070	-0.0069	-0.2412
24	0.0	-2.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.0281	-0.0012	-0.0089	-0.0427	-0.3180
25	0.0	-1.21	9.9999	9.9999	9.9999	9.9999	9.9999	0.0337	0.0010	-0.0050	0.0297	-0.1475
26	0.0	-0.42	9.9999	9.9999	9.9999	9.9999	9.9999	0.0311	0.0006	-0.0052	0.0193	-0.1684
27	0.0	0.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.0405	0.0017	-0.0054	0.0420	-0.1335
28	-0.01	1.12	9.9999	9.9999	9.9999	9.9999	9.9999	0.0287	0.0004	-0.0066	0.0139	-0.2312
29	0.0	1.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0273	0.0002	-0.0065	0.0073	-0.2382
30	0.0	2.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0359	0.0026	-0.0031	0.0724	-0.0874
31	0.0	3.47	9.9999	9.9999	9.9999	9.9999	9.9999	0.0371	0.0027	-0.0025	0.0728	-0.0684
32	0.0	4.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.0350	0.0015	-0.0048	0.0429	-0.1382
33	0.0	5.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0414	0.0022	-0.0031	0.0531	-0.0750
34	0.0	5.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.0370	0.0025	-0.0018	0.0676	-0.0479
35	0.0	6.65	9.9999	9.9999	9.9999	9.9999	9.9999	0.0404	0.0017	-0.0044	0.0421	-0.1099
36	0.0	7.48	9.9999	9.9999	9.9999	9.9999	9.9999	0.0485	0.0038	0.0011	0.0784	-0.0219
37	0.0	8.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.0400	0.0022	-0.0029	0.0550	-0.0718
38	0.0	9.09	9.9999	9.9999	9.9999	9.9999	9.9999	0.0478	0.0029	-0.0013	0.0607	-0.0266
39	0.0	9.89	9.9999	9.9999	9.9999	9.9999	9.9999	0.0458	0.0042	0.0013	0.0917	0.0275
40	0.0	10.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.0525	0.0047	0.0017	0.0895	0.0323
41	0.0	11.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.0485	0.0050	0.0013	0.1031	0.0260
42	0.0	12.30	9.9999	9.9999	9.9999	9.9999	9.9999	0.0466	0.0046	0.0010	0.1031	0.0216
43	0.01	13.08	9.9999	9.9999	9.9999	9.9999	9.9999	0.0431	0.0048	0.0012	0.1114	0.0270
44	0.01	13.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.0432	0.0055	0.0005	0.1273	0.0115
45	0.0	14.62	9.9999	9.9999	9.9999	9.9999	9.9999	0.0479	0.0078	0.0034	0.1628	0.0702
46	0.01	15.40	9.9999	9.9999	9.9999	9.9999	9.9999	0.0446	0.0071	0.0002	0.1592	0.0036

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION	
6	92	1.01	1.7	0.0	B2MDF16	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	0.01	16.19	9.9999	9.9999	9.9999	9.9999	9.9999	0.0472	0.0063	0.0002	0.1758	0.0048
48	0.01	16.99	9.9999	9.9999	9.9999	9.9999	9.9999	0.0488	0.0074	-0.0002	0.1516	-0.0049
49	0.01	17.81	9.9999	9.9999	9.9999	9.9999	9.9999	0.0472	0.0061	0.0013	0.1292	0.0281
50	0.01	18.68	9.9999	9.9999	9.9999	9.9999	9.9999	0.0553	0.0081	0.0074	0.1465	0.1343
51	0.01	19.45	9.9999	9.9999	9.9999	9.9999	9.9999	0.0386	0.0054	0.0035	0.1399	0.0897
52	0.0	20.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.0572	0.0071	0.0054	0.1241	0.0937

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		92	1.01	1.7	0.0	82MOF16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCFF3	YCFF3	CNF4	CH4	LB4	XCFF4	YCFF4
1	0.0	-19.87	1.4757	0.0653	0.5183	0.0443	0.3512	-0.1143	-0.0133	0.0045	0.1164	-0.0395
2	0.0	-19.50	1.4709	0.0658	0.5142	0.0447	0.3496	-0.1050	-0.0113	0.0091	0.1076	-0.0868
3	0.0	-18.73	1.4594	0.0658	0.5095	0.0451	0.3491	-0.1252	-0.0134	0.0051	0.1070	-0.0406
4	0.0	-17.93	1.4496	0.0669	0.5260	0.0449	0.3531	-0.1075	-0.0123	0.0056	0.1144	-0.0519
5	0.01	-17.06	1.5058	0.0674	0.5281	0.0448	0.3507	-0.1110	-0.0127	0.0053	0.1144	-0.0479
6	0.0	-16.27	1.4977	0.0682	0.5310	0.0455	0.3545	-0.0942	-0.0102	0.0085	0.1083	-0.0904
7	0.0	-15.44	1.5001	0.0683	0.5261	0.0455	0.3507	-0.0942	-0.0100	0.0084	0.1062	-0.0893
8	0.0	-14.66	1.4834	0.0683	0.5247	0.0460	0.3537	-0.1047	-0.0113	0.0071	0.1079	-0.0679
9	-0.01	-13.81	1.4701	0.0687	0.5153	0.0467	0.3505	-0.0950	-0.0094	0.0104	0.0989	-0.1099
10	-0.01	-12.99	1.4467	0.0688	0.5067	0.0476	0.3502	-0.1046	-0.0113	0.0071	0.1080	-0.0683
11	-0.01	-12.20	1.4238	0.0685	0.4942	0.0481	0.3471	-0.0806	-0.0086	0.0101	0.1067	-0.1258
12	-0.01	-11.43	1.3948	0.0689	0.4781	0.0494	0.3428	-0.0917	-0.0088	0.0113	0.0960	-0.1237
13	0.0	-10.68	1.3691	0.0688	0.4671	0.0503	0.3412	-0.0944	-0.0100	0.0085	0.1059	-0.0905
14	0.0	-9.45	1.3456	0.0696	0.4518	0.0517	0.3357	-0.0949	-0.0100	0.0105	0.1054	-0.1104
15	-0.01	-9.16	1.2962	0.0705	0.4360	0.0544	0.3364	-0.0877	-0.0086	0.0103	0.0981	-0.1172
16	-0.01	-8.36	1.2554	0.0733	0.4187	0.0584	0.3335	-0.0813	-0.0074	0.0127	0.0910	-0.1563
17	0.0	-7.59	1.2154	0.0787	0.4032	0.0648	0.3317	-0.0986	-0.0092	0.0115	0.0933	-0.1171
18	0.0	-6.76	1.1894	0.0856	0.3879	0.0720	0.3262	-0.0819	-0.0064	0.0147	0.0781	-0.1796
19	0.0	-5.98	1.1464	0.0918	0.3725	0.0801	0.3253	-0.0884	-0.0074	0.0128	0.0837	-0.1453
20	0.0	-5.17	1.1115	0.0954	0.3617	0.0858	0.3254	-0.0790	-0.0041	0.0162	0.0519	-0.2048
21	-0.01	-4.45	1.1709	0.1281	0.3921	0.1094	0.3348	-0.0680	-0.0033	0.0149	0.0485	-0.2197
22	-0.01	-3.68	1.1210	0.1214	0.3716	0.1083	0.3310	-0.0686	-0.0025	0.0168	0.0364	-0.2455
23	0.0	-2.80	1.0602	0.1171	0.3486	0.1105	0.3288	-0.0796	-0.0033	0.0182	0.0415	-0.2283
24	0.0	-2.06	0.9991	0.1125	0.3251	0.1126	0.3254	-0.0643	-0.0033	0.0145	0.0513	-0.2251
25	0.0	-1.21	0.9422	0.1072	0.2984	0.1138	0.3167	-0.0614	-0.0021	0.0166	0.0342	-0.2710
26	0.0	-0.42	0.8675	0.1010	0.2671	0.1164	0.3079	-0.0614	-0.0023	0.0166	0.0375	-0.2710
27	0.0	0.35	0.7953	0.0954	0.2358	0.1200	0.2965	-0.0677	-0.0039	0.0148	0.0576	-0.2192
28	-0.01	1.12	0.7203	0.0882	0.2069	0.1224	0.2873	-0.0683	-0.0039	0.0168	0.0571	-0.2466
29	0.0	1.90	0.6587	0.0796	0.1765	0.1208	0.2679	-0.0612	-0.0033	0.0167	0.0539	-0.2730
30	0.0	2.67	0.5765	0.0696	0.1485	0.1207	0.2576	-0.0643	-0.0019	0.0195	0.0274	-0.2815
31	0.0	3.47	0.5022	0.0596	0.1174	0.1187	0.2339	-0.0630	-0.0006	0.0225	0.0095	-0.3573
32	0.0	4.22	0.4375	0.0491	0.0887	0.1122	0.2027	-0.0622	-0.0013	0.0193	0.0209	-0.3099
33	0.0	5.05	0.3576	0.0366	0.0616	0.1023	0.1721	-0.0741	-0.0012	0.0238	0.0162	-0.3213
34	0.0	5.85	0.2863	0.0233	0.0374	0.0814	0.1306	-0.0669	-0.0012	0.0237	0.0179	-0.3544
35	0.0	6.65	0.2287	0.0097	0.0130	0.0424	0.0569	-0.0630	-0.0022	0.0232	0.0349	-0.3684
36	0.0	7.48	0.1709	0.0021	-0.0089	0.0123	-0.0518	-0.0675	-0.0020	0.0269	0.0296	-0.3986
37	0.0	8.28	0.0935	-0.0080	-0.0261	-0.0856	-0.2796	-0.0777	-0.0026	0.0243	0.0335	-0.3129
38	0.0	9.09	0.0603	-0.0204	-0.0522	-0.3383	-0.8658	-0.0662	-0.0028	0.0211	0.0423	-0.3194
39	0.0	9.89	-0.0094	-0.0367	-0.0682	3.9043	7.2587	-0.0715	-0.0020	0.0275	0.0280	-0.3843
40	0.0	10.72	-0.0659	-0.0468	-0.0945	0.7102	1.4394	-0.0711	-0.0043	0.0274	0.0605	-0.3855
41	0.0	11.52	-0.1384	-0.0532	-0.1224	0.3844	0.8845	-0.0521	-0.0093	0.0259	0.1785	-0.4979
42	0.0	12.30	-0.2241	-0.0592	-0.1521	0.2662	0.6786	-0.0733	-0.0106	0.0240	0.1446	-0.3271
43	0.01	13.08	-0.2984	-0.0642	-0.1828	0.2151	0.6127	-0.0793	-0.0080	0.0182	0.1009	-0.2292
44	0.01	13.86	-0.3562	-0.0680	-0.2048	0.1909	0.5749	-0.0952	-0.0092	0.0112	0.0966	-0.1174
45	0.0	14.62	-0.4371	-0.0718	-0.2306	0.1643	0.5277	-0.1011	-0.0113	0.0067	0.1118	-0.0664
46	0.01	15.40	-0.5045	-0.0753	-0.2615	0.1493	0.5183	-0.0946	-0.0094	0.0085	0.0994	-0.0896

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 92 1.01 1.7 0.0 82WOF16 0.0 10 0 10 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	16.19	-0.5768	-0.0782	-0.2828	0.1356	0.4903	-0.1013	-0.0101	0.0067	0.0997	-0.0666
48	0.01	16.99	-0.6235	-0.0807	-0.3070	0.1294	0.4923	-0.1169	-0.0152	0.0002	0.1300	-0.0021
49	0.01	17.81	-0.6974	-0.0821	-0.3322	0.1177	0.4763	-0.1137	-0.0144	0.0011	0.1266	-0.0098
50	0.01	18.68	-0.7442	-0.0852	-0.3515	0.1145	0.4723	-0.1127	-0.0157	-0.0028	0.1393	0.0244
51	0.01	19.45	-0.7754	-0.0900	-0.3650	0.1161	0.4707	-0.1141	-0.0136	0.0018	0.1192	-0.0156
52	0.0	20.14	-0.7356	-0.1002	-0.3463	0.1362	0.4708	-0.1074	-0.0136	0.0036	0.1266	-0.0336

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	93	1.05 1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-0.01	-19.91	0.1050	-0.2530	4.4176	-9.2593	-0.0520	0.5960	-3.3619	
2	-0.01	-19.93	0.0624	-0.2243	4.3244	-9.2778	-0.0490	0.5877	-3.5955	
3	0.0	-19.59	0.0919	-0.2156	4.2581	-9.2060	-0.0470	0.5970	-2.3467	
4	-0.01	-18.84	0.1032	-0.3504	4.2188	-9.2499	-0.0440	0.5746	-3.3961	
5	-0.01	-18.01	0.0846	-0.3214	4.0521	-9.3044	-0.0440	0.5855	-3.7995	
6	-0.01	-17.18	0.1240	-0.4025	3.9003	-9.3289	-0.0190	0.5871	-3.2468	
7	-0.01	-16.34	0.1436	-0.4170	3.7373	-9.2247	-0.0020	0.5826	-2.9042	
8	-0.01	-15.56	0.1000	-0.3380	3.5765	-9.2046	0.0020	0.5864	-3.3600	
9	0.0	-14.73	0.1260	-0.2814	3.4843	-9.2175	0.0080	0.5819	-2.2333	
10	0.0	-13.93	0.1050	-0.2900	3.4134	-9.1721	0.0130	0.5690	-2.7619	
11	0.0	-13.11	0.0692	-0.2229	3.2056	-8.9432	0.0130	0.5733	-3.2208	
12	0.0	-12.31	0.0787	-0.2341	3.0866	-8.7826	0.0170	0.5644	-2.9756	
13	-0.01	-11.56	0.0534	-0.2367	2.9468	-8.5850	0.0190	0.5598	-4.4337	
14	-0.01	-10.76	0.0616	-0.2332	2.8038	-8.3548	0.0150	0.5494	-3.7864	
15	-0.01	-10.04	0.0344	-0.1801	2.6877	-8.0863	0.0120	0.5300	-5.2372	
16	-0.01	-9.25	0.0419	-0.1666	2.4735	-7.8063	0.0120	0.5259	-3.9776	
17	0.0	-8.46	0.0669	-0.1986	2.4136	-7.6555	0.0130	0.4998	-2.9695	
18	0.0	-7.66	0.0531	-0.1813	2.2666	-7.3465	0.0100	0.4915	-3.4151	
19	-0.01	-6.87	0.0430	-0.1742	2.1145	-7.1468	0.0060	0.4806	-4.0512	
20	-0.01	-6.05	0.0523	-0.1672	2.0615	-6.9586	0.0040	0.4607	-3.1973	
21	-0.01	-5.33	0.0422	-0.1671	2.0453	-7.5419	0.0160	0.4539	-3.9592	
22	-0.01	-4.52	0.0510	-0.1974	1.9705	-7.1922	0.0170	0.4310	-3.8706	
23	-0.01	-3.74	0.0638	-0.1903	1.9034	-6.5221	0.0200	0.4202	-2.9831	
24	-0.01	-2.89	0.0616	-0.1852	1.7124	-6.4718	0.0160	0.4078	-3.0071	
25	-0.01	-2.12	0.0381	-0.1253	1.5694	-6.1486	0.0180	0.4024	-3.2898	
26	-0.01	-1.36	0.0381	-0.1223	1.3662	-5.7342	0.0170	0.4002	-3.9984	
27	-0.01	-0.50	0.0453	-0.1344	1.2062	-5.2883	0.0190	0.3915	-2.9673	
28	-0.01	0.25	0.0625	-0.1895	1.1444	-4.9287	0.0090	0.3833	-3.0320	
29	-0.01	1.03	0.0393	-0.1470	1.0291	-4.5423	0.0130	0.3799	-3.7410	
30	-0.01	1.78	0.0329	-0.1370	0.7804	-4.0662	0.0160	0.3695	-4.1660	
31	-0.01	2.59	0.0421	-0.1349	0.6233	-3.5243	0.0130	0.3606	-3.2052	
32	-0.01	3.33	0.0271	-0.1079	0.4118	-3.0063	0.0140	0.3452	-3.9630	
33	0.0	4.14	0.0275	-0.0815	0.3040	-2.5963	0.0070	0.3297	-2.9636	
34	0.0	4.90	0.0349	-0.0878	0.0983	-2.0893	0.0090	0.3146	-2.5175	
35	-0.01	5.72	-0.0020	-0.0422	-0.0261	-1.6792	0.0080	0.3134	21.0000	
36	-0.01	6.57	-0.0137	-0.0068	-0.1856	-1.2260	0.0090	0.3071	0.4978	
37	0.0	7.33	0.0164	-0.0340	-0.3177	-0.8911	0.0060	0.3119	-2.0707	
38	0.0	8.17	-0.0007	-0.0120	-0.5156	-0.4530	0.0050	0.2967	17.1714	
39	0.0	8.97	0.0181	-0.0643	-0.6126	-0.1372	0.0	0.2901	-3.5547	
40	0.0	9.79	0.0242	-0.0659	-0.8072	0.2692	-0.0050	0.2754	-2.7223	
41	0.0	10.58	0.0270	-0.0368	-1.0476	0.8177	-0.0030	0.2490	-1.3630	
42	-0.01	11.41	0.0210	-0.0754	-1.1795	1.1944	-0.0170	0.2612	-3.5905	
43	0.0	12.18	0.0152	-0.0023	-1.4200	1.7011	-0.0180	0.2217	-0.1500	
44	0.0	12.96	0.0021	0.0261	-1.4347	1.9226	-0.0290	0.2186	14.4095	
45	0.0	13.74	-0.0036	0.0560	-1.6755	2.4537	-0.0310	0.2040	-15.5667	
46	0.01	14.49	0.0127	0.0852	-1.9732	2.9805	-0.0310	0.1638	6.7102	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		93		1.05 1.7		0.0 82WOF16		0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.0	15.27	0.0112	0.0643	-2.1333	3.2586	-0.0380	0.1582	5.7428				
48	0.01	16.05	0.0149	0.1151	-2.3265	3.6550	-0.0350	0.1398	7.7275				
49	0.01	16.87	0.0029	0.1019	-2.5892	4.0518	-0.0420	0.1045	35.1517				
50	0.0	17.66	-0.0427	0.1538	-2.7087	4.3022	-0.0380	0.1044	-3.6014				
51	0.0	18.51	-0.0516	0.2192	-3.0659	4.8182	-0.0310	0.0608	-4.2488				
52	0.0	19.31	-0.0502	0.2033	-3.0984	4.8387	-0.0400	0.0718	-4.0444				
53	0.01	20.11	-0.0730	0.2702	-3.3267	5.1383	-0.0250	0.0300	-3.7014				
54	0.0	20.15	-0.0680	0.2182	-3.3499	5.1427	-0.0290	0.0148	-3.2088				

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	93	1.05	1.7	0.0	0.2W0F16	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-0.01	-19.91	9.9999	9.9999	9.9999	9.9999	9.9999	0.0778	0.0128	0.0075	0.1645	0.0967
2	-0.01	-19.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0646	0.0092	0.0026	0.1424	0.0406
3	0.0	-19.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.0598	0.0084	0.0007	0.1405	0.0121
4	-0.01	-18.84	9.9999	9.9999	9.9999	9.9999	9.9999	0.0729	0.0109	0.0004	0.1495	0.0054
5	-0.01	-18.01	9.9999	9.9999	9.9999	9.9999	9.9999	0.0620	0.0057	-0.0077	0.0919	-0.1248
6	-0.01	-17.18	9.9999	9.9999	9.9999	9.9999	9.9999	0.0516	0.0039	-0.0077	0.0756	-0.1493
7	-0.01	-16.34	9.9999	9.9999	9.9999	9.9999	9.9999	0.0430	-0.0028	-0.0190	-0.0651	-0.4412
8	-0.01	-15.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0334	-0.0035	-0.0173	-0.1048	-0.5171
9	0.0	-14.73	9.9999	9.9999	9.9999	9.9999	9.9999	0.0289	-0.0034	-0.0151	-0.1176	-0.5215
10	0.0	-13.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0291	-0.0033	-0.0160	-0.1134	-0.5499
11	0.0	-13.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.0248	-0.0028	-0.0145	-0.1129	-0.5861
12	0.0	-12.31	9.9999	9.9999	9.9999	9.9999	9.9999	0.0297	-0.0020	-0.0136	-0.0673	-0.4580
13	-0.01	-11.56	9.9999	9.9999	9.9999	9.9999	9.9999	0.0243	-0.0015	-0.0130	-0.0617	-0.5351
14	-0.01	-10.76	9.9999	9.9999	9.9999	9.9999	9.9999	0.0287	-0.0009	-0.0101	-0.0314	-0.3532
15	-0.01	-10.04	9.9999	9.9999	9.9999	9.9999	9.9999	0.0309	-0.0007	-0.0141	-0.0227	-0.4564
16	-0.01	-9.25	9.9999	9.9999	9.9999	9.9999	9.9999	0.0288	0.0	-0.0112	0.0	-0.3890
17	0.0	-8.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.0338	0.0001	-0.0106	0.0030	-0.3147
18	0.0	-7.66	9.9999	9.9999	9.9999	9.9999	9.9999	0.0303	0.0	-0.0125	0.0	-0.4127
19	-0.01	-6.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.0301	-0.0004	-0.0114	-0.0133	-0.3777
20	-0.01	-6.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0346	-0.0003	-0.0086	-0.0087	-0.2477
21	-0.01	-5.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0348	-0.0005	-0.0094	-0.0144	-0.2702
22	-0.01	-4.52	9.9999	9.9999	9.9999	9.9999	9.9999	0.0301	-0.0011	-0.0114	-0.0365	-0.3777
23	-0.01	-3.74	9.9999	9.9999	9.9999	9.9999	9.9999	0.0329	0.0	-0.0070	0.0	-0.2139
24	-0.01	-2.89	9.9999	9.9999	9.9999	9.9999	9.9999	0.0289	-0.0014	-0.0111	-0.0484	-0.3830
25	-0.01	-2.12	9.9999	9.9999	9.9999	9.9999	9.9999	0.0280	-0.0009	-0.0077	-0.0321	-0.2739
26	-0.01	-1.36	9.9999	9.9999	9.9999	9.9999	9.9999	0.0345	-0.0001	-0.0077	-0.0029	-0.2233
27	-0.01	-0.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0318	0.0	-0.0069	0.0	-0.2171
28	-0.01	0.25	9.9999	9.9999	9.9999	9.9999	9.9999	0.0319	0.0002	-0.0076	0.0063	-0.2373
29	-0.01	1.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0404	0.0014	-0.0047	0.0347	-0.1173
30	-0.01	1.78	9.9999	9.9999	9.9999	9.9999	9.9999	0.0382	0.0009	-0.0064	0.0236	-0.1668
31	-0.01	2.59	9.9999	9.9999	9.9999	9.9999	9.9999	0.0342	0.0009	-0.0059	0.0263	-0.1726
32	-0.01	3.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0337	0.0	-0.0093	0.0	-0.2751
33	0.0	4.14	9.9999	9.9999	9.9999	9.9999	9.9999	0.0344	0.0007	-0.0069	0.0203	-0.2017
34	0.0	4.90	9.9999	9.9999	9.9999	9.9999	9.9999	0.0432	0.0019	-0.0050	0.0440	-0.1159
35	-0.01	5.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.0347	0.0004	-0.0076	0.0115	-0.2201
36	-0.01	6.57	9.9999	9.9999	9.9999	9.9999	9.9999	0.0346	0.0008	-0.0072	0.0231	-0.2072
37	0.0	7.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0407	0.0017	-0.0056	0.0418	-0.1385
38	0.0	8.17	9.9999	9.9999	9.9999	9.9999	9.9999	0.0405	0.0016	-0.0047	0.0395	-0.1162
39	0.0	8.97	9.9999	9.9999	9.9999	9.9999	9.9999	0.0476	0.0029	-0.0013	0.0609	-0.0281
40	0.0	9.79	9.9999	9.9999	9.9999	9.9999	9.9999	0.0481	0.0024	-0.0032	0.0499	-0.0660
41	0.0	10.58	9.9999	9.9999	9.9999	9.9999	9.9999	0.0537	0.0036	0.0010	0.0670	0.0185
42	-0.01	11.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.0588	0.0041	0.0022	0.0697	0.0373
43	0.0	12.18	9.9999	9.9999	9.9999	9.9999	9.9999	0.0541	0.0032	-0.0002	0.0591	-0.0032
44	0.0	12.96	9.9999	9.9999	9.9999	9.9999	9.9999	0.0587	0.0048	0.0023	0.0818	0.0385
45	0.0	13.74	9.9999	9.9999	9.9999	9.9999	9.9999	0.0528	0.0054	0.0051	0.1023	0.0965
46	0.01	14.49	9.9999	9.9999	9.9999	9.9999	9.9999	0.0468	0.0039	0.0028	0.0833	0.0597

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		93	1.05	1.7	0.0	82WU16	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.0	15.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.0582	0.0069	0.0104	0.1186	0.1786	
48	0.01	16.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0554	0.0086	0.0108	0.1552	0.1942	
49	0.01	16.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.0411	0.0077	0.0039	0.1873	0.0948	
50	0.0	17.66	9.9999	9.9999	9.9999	9.9999	9.9999	0.0340	0.0065	0.0005	0.1912	0.0156	
51	0.0	18.51	9.9999	9.9999	9.9999	9.9999	9.9999	0.0358	0.0069	0.0043	0.1927	0.1209	
52	0.0	19.31	9.9999	9.9999	9.9999	9.9999	9.9999	0.0406	0.0075	0.0063	0.1847	0.1559	
53	0.01	20.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.0384	0.0060	0.0047	0.1562	0.1223	
54	0.0	20.15	9.9999	9.9999	9.9999	9.9999	9.9999	0.0477	0.0086	0.0103	0.1803	0.2158	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
8 93 1.05 1.7			0.0	0.82	WOF 16	0.0	1.0	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-0.01	-19.91	1.6572	0.0637	0.5836	0.0384	0.3522	-0.1227	-0.0130	0.0113	0.1059	-0.0922
2	-0.01	-19.93	1.6506	0.0641	0.5751	0.0388	0.3484	-0.1243	-0.0149	0.0053	0.1199	-0.0425
3	0.0	-19.59	1.6378	0.0640	0.5787	0.0391	0.3534	-0.1349	-0.0151	0.0065	0.1119	-0.0485
4	-0.01	-18.84	1.6391	0.0642	0.5760	0.0392	0.3514	-0.1226	-0.0128	0.0112	0.1044	-0.0917
5	-0.01	-18.01	1.6302	0.0646	0.5692	0.0396	0.3492	-0.1227	-0.0125	0.0112	0.1019	-0.0914
6	-0.01	-17.18	1.6220	0.0653	0.5656	0.0403	0.3487	-0.1123	-0.0117	0.0107	0.1042	-0.0951
7	-0.01	-16.34	1.5960	0.0661	0.5553	0.0414	0.3479	-0.0952	-0.0102	0.0112	0.1071	-0.1174
8	-0.01	-15.56	1.5734	0.0666	0.5470	0.0423	0.3476	-0.1094	-0.0108	0.0127	0.0987	-0.1165
9	0.0	-14.73	1.5473	0.0668	0.5400	0.0432	0.3490	-0.1227	-0.0123	0.0112	0.1002	-0.0914
10	0.0	-13.93	1.5171	0.0666	0.5295	0.0439	0.3493	-0.0994	-0.0101	0.0141	0.1010	-0.1416
11	0.0	-13.11	1.4908	0.0674	0.5157	0.0452	0.3459	-0.1093	-0.0110	0.0128	0.1006	-0.1169
12	0.0	-12.31	1.4560	0.0677	0.5017	0.0465	0.3445	-0.0893	-0.0096	0.0153	0.1075	-0.1718
13	-0.01	-11.56	1.4326	0.0686	0.4884	0.0479	0.3409	-0.0924	-0.0096	0.0139	0.1039	-0.1506
14	-0.01	-10.76	1.3951	0.0694	0.4719	0.0497	0.3382	-0.0922	-0.0096	0.0139	0.1041	-0.1505
15	-0.01	-10.04	1.3594	0.0707	0.4559	0.0520	0.3353	-0.0921	-0.0088	0.0138	0.0955	-0.1500
16	-0.01	-9.25	1.3290	0.0734	0.4415	0.0552	0.3322	-0.0918	-0.0090	0.0138	0.0980	-0.1504
17	0.0	-8.46	1.3062	0.0775	0.4249	0.0593	0.3253	-0.0961	-0.0088	0.0174	0.0916	-0.1806
18	0.0	-7.66	1.2717	0.0848	0.4157	0.0667	0.3269	-0.0960	-0.0088	0.0173	0.0917	-0.1803
19	-0.01	-6.87	1.2506	0.0881	0.4053	0.0704	0.3241	-0.1066	-0.0088	0.0186	0.0826	-0.1743
20	-0.01	-6.05	1.2163	0.0898	0.3937	0.0738	0.3237	-0.0897	-0.0076	0.0190	0.0847	-0.2119
21	-0.01	-5.33	1.2877	0.1096	0.4217	0.0851	0.3275	-0.0915	-0.0090	0.0137	0.0984	-0.1498
22	-0.01	-4.52	1.2127	0.1065	0.3929	0.0882	0.3240	-0.0892	-0.0071	0.0171	0.0796	-0.1914
23	-0.01	-3.74	1.1633	0.1035	0.3720	0.0890	0.3198	-0.0795	-0.0057	0.0184	0.0717	-0.2316
24	-0.01	-2.89	1.1053	0.1014	0.3442	0.0917	0.3114	-0.0867	-0.0057	0.0187	0.0657	-0.2158
25	-0.01	-2.12	1.0333	0.0976	0.3194	0.0945	0.3091	-0.0793	-0.0049	0.0160	0.0618	-0.2015
26	-0.01	-1.36	0.9759	0.0938	0.2966	0.0961	0.3039	-0.0766	-0.0040	0.0181	0.0522	-0.2360
27	-0.01	-0.50	0.9059	0.0889	0.2686	0.0981	0.2965	-0.0708	-0.0044	0.0191	0.0485	-0.2108
28	-0.01	0.25	0.8405	0.0831	0.2447	0.0989	0.2911	-0.0636	-0.0030	0.0203	0.0472	-0.3193
29	-0.01	1.05	0.7617	0.0761	0.2121	0.0999	0.2785	-0.0587	-0.0044	0.0188	0.0503	-0.2148
30	-0.01	1.78	0.6964	0.0701	0.1827	0.1007	0.2623	-0.0740	-0.0038	0.0202	0.0514	-0.2735
31	-0.01	2.59	0.5981	0.0624	0.1518	0.1043	0.2538	-0.0637	-0.0030	0.0203	0.0471	-0.3183
32	-0.01	3.33	0.5212	0.0550	0.1204	0.1055	0.2310	-0.0780	-0.0034	0.0219	0.0436	-0.2809
33	0.0	4.14	0.4450	0.0470	0.0934	0.1070	0.2098	-0.0810	-0.0042	0.0205	0.0519	-0.2532
34	0.0	4.90	0.3654	0.0388	0.0619	0.1062	0.1693	-0.0676	-0.0033	0.0214	0.0488	-0.3162
35	-0.01	5.72	0.2780	0.0288	0.0363	0.0966	0.1218	-0.0808	-0.0050	0.0193	0.0619	-0.2386
36	-0.01	6.57	0.2418	0.0173	0.0140	0.0715	0.0578	-0.0816	-0.0050	0.0224	0.0613	-0.2746
37	0.0	7.33	0.1854	0.0051	-0.0083	0.0275	-0.0449	-0.0787	-0.0039	0.0246	0.0496	-0.3123
38	0.0	8.17	0.1136	-0.0075	-0.0317	-0.0666	-0.2795	-0.0789	-0.0033	0.0246	0.0418	-0.3119
39	0.0	8.97	0.0790	-0.0197	-0.0523	-0.2494	-0.6617	-0.0727	-0.0031	0.0276	0.0426	-0.3793
40	0.0	9.79	0.0145	-0.0341	-0.0712	-2.3517	-5.0461	-0.0755	-0.0070	0.0261	0.0427	-0.3463
41	0.0	10.58	-0.0599	-0.0439	-0.0994	0.7329	1.6588	-0.0654	-0.0070	0.0293	0.1498	-0.4481
42	-0.01	11.41	-0.1257	-0.0502	-0.1224	0.3994	0.9736	-0.0751	-0.0109	0.0262	0.1451	-0.3485
43	0.0	12.18	-0.1863	-0.0551	-0.1483	0.2448	0.7754	-0.0804	-0.0089	0.0187	0.1107	-0.2327
44	0.0	12.96	-0.2444	-0.0578	-0.1720	0.2365	0.7039	-0.0976	-0.0084	0.0176	0.0861	-0.1801
45	0.0	13.74	-0.3280	-0.0595	-0.1990	0.1814	0.6067	-0.1038	-0.0072	0.0146	0.0886	-0.1408
46	0.01	14.49	-0.4066	-0.0608	-0.2281	0.1495	0.5610	-0.0979	-0.0078	0.0177	0.0797	-0.1806

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6													
6		93 1.05 1.7		PHI		CONF		L		DEL1		DEL2	
0		0.0 B2M0F16		0.0		10		0		10		0	
												FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCFF3	CNF4	CH4	CB4	XCFF4	YCFF4	
47	0.0	15.27	-0.4822	-0.0627	-0.2516	0.1300	0.5217	-0.1161	-0.0106	0.0086	0.0913	-0.0742	
48	0.01	16.05	-0.5400	-0.0643	-0.2705	0.1191	0.5128	-0.1134	-0.0098	0.0107	0.0864	-0.0945	
49	0.01	16.87	-0.5945	-0.0679	-0.3050	0.1142	0.5130	-0.1295	-0.0130	0.0064	0.1004	-0.0498	
50	0.0	17.66	-0.6416	-0.0705	-0.3251	0.1099	0.5067	-0.1284	-0.0141	0.0026	0.1098	-0.0204	
51	0.0	18.51	-0.7053	-0.0738	-0.3509	0.1046	0.4975	-0.1221	-0.0132	0.0049	0.1081	-0.0402	
52	0.0	19.31	-0.7509	-0.0762	-0.3683	0.1015	0.4905	-0.1259	-0.0125	0.0053	0.0993	-0.0425	
53	0.01	20.11	-0.8008	-0.0797	-0.3899	0.0995	0.4869	-0.1203	-0.0104	0.0097	0.0865	-0.0868	
54	0.0	20.15	-0.8145	-0.0810	-0.3842	0.0994	0.4717	-0.1142	-0.0092	0.0120	0.0806	-0.1055	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 94 1.10 1.7									
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION									
0.0 82WOF16 0.0 10 0 10 0 FIXED									
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	-0.01	-19.91	0.1164	-0.4439	4.3911	-9.3032	-0.0430	0.6242	-3.8141
2	-0.01	-19.50	0.0544	-0.2161	4.3248	-9.2473	-0.0120	0.6415	-3.9735
3	-0.01	-18.70	0.0662	-0.2586	4.4179	-9.3327	-0.0420	0.6103	-3.9076
4	-0.01	-17.93	0.0784	-0.3587	4.1417	-9.2009	-0.0320	0.6139	-4.5760
5	-0.01	-17.06	0.1143	-0.3530	3.9637	-9.1517	-0.0150	0.6091	-3.0885
6	0.0	-16.27	0.0785	-0.1619	3.8224	-9.0879	-0.0050	0.5974	-2.0624
7	0.0	-15.46	0.0772	-0.2121	3.4895	-8.8318	-0.0080	0.6163	-2.7471
8	0.0	-14.67	0.0574	-0.1663	3.4094	-8.8386	0.0100	0.6045	-2.8983
9	0.0	-13.82	0.0393	-0.1260	3.3419	-8.7791	0.0010	0.5887	-3.2066
10	0.0	-12.99	0.0558	-0.1791	3.1173	-8.5147	0.0130	0.5910	-3.2100
11	0.0	-12.19	0.0358	-0.1373	3.0681	-8.4288	0.0070	0.5641	-4.0627
12	0.0	-11.43	0.0286	-0.0850	2.8761	-8.1570	0.0170	0.5640	-2.9734
13	-0.01	-10.72	0.0161	-0.0625	2.6438	-7.8287	0.0120	0.5555	-3.8845
14	-0.01	-9.95	0.0077	-0.0468	2.5757	-7.7274	0.0070	0.5437	-6.0753
15	0.0	-9.19	0.0354	-0.0726	2.4450	-7.5344	0.0080	0.5453	-2.0497
16	0.0	-8.35	0.0030	-0.0122	2.4650	-7.4394	0.0070	0.5081	-4.0667
17	-0.01	-7.62	0.0265	-0.0881	2.1608	-7.0466	0.0070	0.4927	-3.3245
18	0.0	-6.77	0.0209	-0.0253	2.1731	-7.0318	-0.0010	0.4800	-1.2086
19	0.0	-6.03	0.0376	-0.0906	2.0880	-7.4596	0.0140	0.4821	-2.4106
20	0.0	-5.22	0.0310	-0.0884	1.5654	-7.0581	0.0170	0.4617	-2.8516
21	-0.01	-4.46	-0.0216	0.0222	1.9030	-6.8476	0.0200	0.4579	-1.0296
22	-0.01	-3.70	0.0211	-0.0845	1.8181	-6.5758	0.0200	0.4417	-4.0066
23	0.0	-2.83	0.0010	-0.0204	1.6681	-6.2708	0.0180	0.4393	-20.4000
24	0.0	-2.06	0.0466	-0.1212	1.4951	-5.7937	0.0160	0.4210	-2.6017
25	0.0	-1.24	0.0335	-0.0689	1.3687	-5.4347	0.0140	0.4252	-2.0567
26	-0.01	-0.43	0.0252	-0.0973	1.2479	-5.0457	0.0160	0.4009	-3.8603
27	-0.01	0.33	0.0272	-0.1251	1.0385	-4.5664	0.0110	0.4112	-4.5985
28	0.0	1.11	0.0431	-0.0873	1.0085	-4.2665	0.0120	0.4060	-2.0264
29	0.0	1.87	0.0241	-0.0497	0.7179	-3.7627	0.0120	0.3957	-2.0639
30	0.0	2.65	0.0183	-0.0336	0.6019	-3.3564	0.0160	0.3834	-1.8372
31	0.0	3.41	0.0058	-0.0131	0.4831	-2.7901	0.0110	0.3730	-2.2621
32	0.0	4.19	0.0185	-0.0369	0.2903	-2.4341	0.0070	0.3548	-1.9946
33	0.0	4.97	-0.0002	0.0193	0.0368	-1.8823	0.0120	0.3391	-96.4000
34	0.0	5.80	-0.0207	0.0730	-0.1279	-1.5557	0.0150	0.3371	-3.5256
35	0.0	6.60	0.0034	0.0302	-0.1879	-1.1228	0.0080	0.3293	8.8961
36	0.0	7.41	0.0120	0.0042	-0.3511	-0.7044	0.0060	0.3275	0.3500
37	0.0	8.20	0.0101	-0.0191	-0.5912	-0.3741	0.0030	0.3168	-1.8950
38	0.0	9.07	0.0090	0.0114	-0.6568	0.0517	0.0010	0.3043	1.2667
39	0.0	9.85	-0.0001	-0.0009	-0.8385	0.4600	-0.0010	0.2955	8.6000
40	0.0	10.63	-0.0557	0.1200	-1.0129	0.8581	-0.0060	0.2865	-2.1540
41	0.0	11.44	-0.0024	0.0654	-1.3415	1.3722	-0.0130	0.2570	-27.2333
42	0.0	12.24	-0.0197	0.0916	-1.3414	1.7920	-0.0200	0.2482	-4.6487
43	0.0	12.98	0.0027	0.0812	-1.6078	2.6179	-0.0250	0.2417	30.0814
44	0.0	13.77	-0.0574	0.2283	-1.7403	2.4874	-0.0230	0.2235	-3.9784
45	0.0	14.51	-0.0068	0.0805	-2.0270	2.8758	-0.0390	0.1883	-11.8412
46	0.01	15.28	0.0083	0.1382	-2.1878	3.2129	-0.0310	0.1832	21.9333

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6	94	1.10	1.7	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4 TRANSITION
				0.0	B2WUF16	0.0	10	0	10	0 FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	0.01	16.05	-0.0117	0.1424	-2.3921	3.5049	-0.0360	0.1588	-12.1692	
48	0.01	16.86	-0.0317	0.2813	-2.5407	3.7959	-0.0190	0.1458	-8.8763	
49	0.01	17.67	-0.0502	0.2972	-2.7794	4.1282	-0.0330	0.1389	-5.9219	
50	0.01	18.50	-0.0565	0.2611	-2.9091	4.3597	-0.0250	0.1015	-4.6212	
51	0.01	19.32	-0.0513	0.2618	-3.2428	4.6849	-0.0400	0.0887	-5.1037	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION			
6	94	1.10	1.7	0.0	B2WOF16	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CBI2	XCPF2	YCPF2	
1	-0.01	-19.91	9.9999	9.9999	9.9999	9.9999	9.9999	0.0809	0.0097	0.0119	0.1199	0.1466	
2	-0.01	-19.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0403	0.0015	0.0021	0.0372	0.0528	
3	-0.01	-18.70	9.9999	9.9999	9.9999	9.9999	9.9999	0.0744	0.0075	0.0079	0.1008	0.1061	
4	-0.01	-17.93	9.9999	9.9999	9.9999	9.9999	9.9999	0.0695	0.0063	0.0018	0.0906	0.0253	
5	-0.01	-17.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.0503	0.0003	-0.0077	0.0060	-0.1539	
6	0.0	-16.27	9.9999	9.9999	9.9999	9.9999	9.9999	0.0334	-0.0025	-0.0109	-0.0749	-0.3255	
7	0.0	-15.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.0381	-0.0012	-0.0097	-0.0315	-0.2547	
8	0.0	-14.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0253	-0.0038	-0.0137	-0.1502	-0.5403	
9	0.0	-13.82	9.9999	9.9999	9.9999	9.9999	9.9999	0.0297	-0.0020	-0.0115	-0.0673	-0.3873	
10	0.0	-12.99	9.9999	9.9999	9.9999	9.9999	9.9999	0.0181	-0.0040	-0.0154	-0.2210	-0.8491	
11	0.0	-12.19	9.9999	9.9999	9.9999	9.9999	9.9999	0.0234	-0.0014	-0.0119	-0.0598	-0.5087	
12	0.0	-11.43	9.9999	9.9999	9.9999	9.9999	9.9999	0.0110	-0.0045	-0.0173	-0.4091	-1.5759	
13	-0.01	-10.72	9.9999	9.9999	9.9999	9.9999	9.9999	0.0162	-0.0021	-0.0134	-0.1296	-0.8273	
14	-0.01	-9.95	9.9999	9.9999	9.9999	9.9999	9.9999	0.0173	-0.0028	-0.0124	-0.1618	-0.7188	
15	0.0	-9.19	9.9999	9.9999	9.9999	9.9999	9.9999	0.0148	-0.0025	-0.0135	-0.1330	-0.7200	
16	0.0	-8.35	9.9999	9.9999	9.9999	9.9999	9.9999	0.0186	-0.0027	-0.0126	-0.1452	-0.6775	
17	-0.01	-7.62	9.9999	9.9999	9.9999	9.9999	9.9999	0.0164	-0.0021	-0.0141	-0.1280	-0.8619	
18	0.0	-6.77	9.9999	9.9999	9.9999	9.9999	9.9999	0.0159	-0.0025	-0.0119	-0.1572	-0.7485	
19	0.0	-6.03	9.9999	9.9999	9.9999	9.9999	9.9999	0.0189	-0.0034	-0.0136	-0.1799	-0.7197	
20	0.0	-5.22	9.9999	9.9999	9.9999	9.9999	9.9999	0.0187	-0.0030	-0.0129	-0.1604	-0.6882	
21	-0.01	-4.46	9.9999	9.9999	9.9999	9.9999	9.9999	0.0128	-0.0041	-0.0145	-0.3203	-1.1355	
22	-0.01	-3.70	9.9999	9.9999	9.9999	9.9999	9.9999	0.0163	-0.0032	-0.0134	-0.1963	-0.8202	
23	0.0	-2.83	9.9999	9.9999	9.9999	9.9999	9.9999	0.0148	-0.0035	-0.0123	-0.2365	-0.8289	
24	0.0	-2.06	9.9999	9.9999	9.9999	9.9999	9.9999	0.0255	-0.0002	-0.0052	-0.0078	-0.2040	
25	0.0	-1.24	9.9999	9.9999	9.9999	9.9999	9.9999	0.0155	-0.0029	-0.0104	-0.1871	-0.6732	
26	-0.01	-0.43	9.9999	9.9999	9.9999	9.9999	9.9999	0.0116	-0.0049	-0.0145	-0.4224	-1.2530	
27	-0.01	0.33	9.9999	9.9999	9.9999	9.9999	9.9999	0.0255	0.0001	-0.0050	0.0039	-0.1962	
28	0.0	1.11	9.9999	9.9999	9.9999	9.9999	9.9999	0.0279	0.0005	-0.0045	0.0179	-0.1614	
29	0.0	1.87	9.9999	9.9999	9.9999	9.9999	9.9999	0.0258	-0.0005	-0.0060	-0.0194	-0.2327	
30	0.0	2.65	9.9999	9.9999	9.9999	9.9999	9.9999	0.0216	-0.0018	-0.0093	-0.0833	-0.4307	
31	0.0	3.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.0275	-0.0009	-0.0075	-0.0327	-0.2741	
32	0.0	4.19	9.9999	9.9999	9.9999	9.9999	9.9999	0.0297	-0.0004	-0.0064	-0.0135	-0.2156	
33	0.0	4.97	9.9999	9.9999	9.9999	9.9999	9.9999	0.0229	-0.0018	-0.0094	-0.0786	-0.4091	
34	0.0	5.80	9.9999	9.9999	9.9999	9.9999	9.9999	0.0150	-0.0034	-0.0132	-0.2267	-0.8801	
35	0.0	6.60	9.9999	9.9999	9.9999	9.9999	9.9999	0.0226	-0.0039	-0.0084	-0.0398	-0.3703	
36	0.0	7.41	9.9999	9.9999	9.9999	9.9999	9.9999	0.0384	0.0004	-0.0053	0.0104	-0.1381	
37	0.0	8.20	9.9999	9.9999	9.9999	9.9999	9.9999	0.0391	0.0012	-0.0030	0.0307	-0.0760	
38	0.0	9.07	9.9999	9.9999	9.9999	9.9999	9.9999	0.0413	0.0017	-0.0015	0.0412	-0.0372	
39	0.0	9.85	9.9999	9.9999	9.9999	9.9999	9.9999	0.0449	0.0021	-0.0003	0.0468	-0.0075	
40	0.0	10.63	9.9999	9.9999	9.9999	9.9999	9.9999	0.0275	-0.0011	-0.0075	-0.0400	-0.2741	
41	0.0	11.44	9.9999	9.9999	9.9999	9.9999	9.9999	0.0356	0.0	-0.0042	0.0	-0.1190	
42	0.0	12.24	9.9999	9.9999	9.9999	9.9999	9.9999	0.0413	0.0015	-0.0015	0.0363	-0.0372	
43	0.0	12.98	9.9999	9.9999	9.9999	9.9999	9.9999	0.0463	0.0018	-0.0008	0.0389	-0.0167	
44	0.0	13.77	9.9999	9.9999	9.9999	9.9999	9.9999	0.0296	-0.0004	-0.0057	-0.0135	-0.1938	
45	0.0	14.51	9.9999	9.9999	9.9999	9.9999	9.9999	0.0494	0.0032	0.0023	0.0648	0.0458	
46	0.01	15.28	9.9999	9.9999	9.9999	9.9999	9.9999	0.0457	0.0023	0.0017	0.0503	0.0378	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART MACH RX10-6												
6 94 1.10 1.7 0.0 B2WOF16 0.0 10 0 10 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	16.05	9.9999	9.9999	9.9999	9.9999	9.9999	0.0481	0.0045	0.0077	0.0936	0.1607
48	0.01	16.86	9.9999	9.9999	9.9999	9.9999	9.9999	0.0365	0.0016	0.0029	0.0438	0.0784
49	0.01	17.67	9.9999	9.9999	9.9999	9.9999	9.9999	0.0372	0.0034	0.0050	0.0914	0.1343
50	0.01	18.50	9.9999	9.9999	9.9999	9.9999	9.9999	0.0397	0.0037	0.0052	0.0932	0.1317
51	0.01	19.32	9.9999	9.9999	9.9999	9.9999	9.9999	0.0357	0.0047	0.0058	0.1317	0.1623

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	94	1.10 1.7	0.0	B2W016	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	LNPF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-0.01	-19.91	1.6502	0.0588	0.5509	0.0356	0.3581	-0.1096	-0.0138	0.0021	0.1259	-0.0190
2	-0.01	-19.50	1.6476	0.0593	0.5885	0.0360	0.3572	-0.1111	-0.0132	0.0077	0.1188	-0.0691
3	-0.01	-18.70	1.6442	0.0593	0.5890	0.0361	0.3582	-0.1286	-0.0166	-0.0017	0.1291	0.0128
4	-0.01	-17.93	1.6160	0.0602	0.5804	0.0373	0.3591	-0.1291	-0.0164	0.0002	0.1270	-0.0014
5	-0.01	-17.06	1.5968	0.0610	0.5702	0.0382	0.3571	-0.1146	-0.0127	0.0074	0.1108	-0.0647
6	0.0	-16.27	1.5709	0.0619	0.5565	0.0394	0.3545	-0.0977	-0.0121	0.0067	0.1238	-0.0690
7	0.0	-15.46	1.5434	0.0626	0.5471	0.0406	0.3545	-0.1207	-0.0138	0.0058	0.1143	-0.0479
8	0.0	-14.67	1.5160	0.0631	0.5350	0.0416	0.3529	-0.1018	-0.0113	0.0095	0.1110	-0.0931
9	0.0	-13.82	1.4962	0.0639	0.5215	0.0427	0.3485	-0.1175	-0.0134	0.0065	0.1140	-0.0557
10	0.0	-12.99	1.4594	0.0650	0.5083	0.0445	0.3483	-0.1114	-0.0124	0.0069	0.1113	-0.0797
11	0.0	-12.19	1.4231	0.0664	0.4924	0.0467	0.3460	-0.1176	-0.0138	0.0072	0.1173	-0.0613
12	0.0	-11.43	1.3874	0.0672	0.4797	0.0484	0.3458	-0.1084	-0.0119	0.0097	0.1098	-0.0893
13	-0.01	-10.72	1.3470	0.0681	0.4624	0.0506	0.3433	-0.1085	-0.0132	0.0097	0.1217	-0.0898
14	-0.01	-9.95	1.3221	0.0705	0.4546	0.0533	0.3439	-0.1087	-0.0126	0.0104	0.1159	-0.0955
15	0.0	-9.19	1.3001	0.0763	0.4391	0.0587	0.3378	-0.0960	-0.0135	0.0118	0.1094	-0.1230
16	0.0	-8.35	1.2789	0.0828	0.4260	0.0647	0.3331	-0.1020	-0.0119	0.0095	0.1167	-0.0933
17	-0.01	-7.62	1.2452	0.0862	0.4136	0.0692	0.3322	-0.0862	-0.0096	0.0125	0.1114	-0.1447
18	0.0	-6.77	1.2210	0.0886	0.4038	0.0726	0.3307	-0.0889	-0.0099	0.0104	0.1114	-0.1167
19	0.0	-6.03	1.2892	0.1023	0.4275	0.0794	0.3316	-0.0870	-0.0079	0.0149	0.0906	-0.1714
20	0.0	-5.22	1.2339	0.1009	0.4023	0.0818	0.3260	-0.0865	-0.0081	0.0131	0.0936	-0.1512
21	-0.01	-4.46	1.1735	0.0984	0.3784	0.0839	0.3225	-0.1090	-0.0087	0.0097	0.0798	-0.0888
22	-0.01	-3.70	1.1147	0.0958	0.3597	0.0859	0.3227	-0.0902	-0.0056	0.0134	0.0621	-0.1490
23	0.0	-2.83	1.0675	0.0922	0.3366	0.0864	0.3153	-0.1094	-0.0068	0.0103	0.0622	-0.0946
24	0.0	-2.06	0.9956	0.0873	0.3112	0.0877	0.3126	-0.0777	-0.0030	0.0156	0.0386	-0.2005
25	0.0	-1.24	0.9243	0.0821	0.2848	0.0888	0.3081	-0.0903	-0.0049	0.0135	0.0543	-0.1496
26	-0.01	-0.43	0.8625	0.0784	0.2572	0.0909	0.2982	-0.0980	-0.0043	0.0161	0.0439	-0.1647
27	-0.01	0.33	0.8055	0.0735	0.2345	0.0912	0.2911	-0.0785	-0.0030	0.0180	0.0382	-0.2298
28	0.0	1.11	0.7345	0.0686	0.2077	0.0934	0.2828	-0.0750	-0.0031	0.0177	0.0413	-0.2361
29	0.0	1.87	0.6471	0.0627	0.1754	0.0969	0.2711	-0.0717	-0.0041	0.0156	0.0528	-0.2009
30	0.0	2.65	0.5685	0.0570	0.1440	0.1003	0.2534	-0.0887	-0.0039	0.0186	0.0440	-0.2102
31	0.0	3.41	0.4890	0.0514	0.1158	0.1051	0.2369	-0.0791	-0.0030	0.0199	0.0379	-0.2521
32	0.0	4.19	0.4081	0.0443	0.0835	0.1086	0.2355	-0.0751	-0.0031	0.0178	0.0413	-0.2367
33	0.0	4.97	0.3321	0.0372	0.0553	0.1120	0.1664	-0.0751	-0.0031	0.0178	0.0413	-0.2367
34	0.0	5.80	0.2610	0.0290	0.0354	0.1111	0.1355	-0.0777	-0.0043	0.0156	0.0553	-0.2009
35	0.0	6.60	0.2036	0.0184	0.0133	0.0904	0.0655	-0.0790	-0.0039	0.0200	0.0494	-0.2529
36	0.0	7.41	0.1459	0.0040	-0.0154	0.0274	-0.1054	-0.0765	-0.0037	0.0233	0.0484	-0.3047
37	0.0	8.20	0.0906	-0.0056	-0.0320	-0.0568	-0.3250	-0.0707	-0.0033	0.0268	0.0467	-0.3797
38	0.0	9.07	0.0440	-0.0210	-0.0562	-0.4773	-1.2781	-0.0704	-0.0031	0.0268	0.0724	-0.3813
39	0.0	9.85	-0.0190	-0.0318	-0.0814	1.6737	4.2858	-0.0701	-0.0080	0.0268	0.1141	-0.3829
40	0.0	10.63	-0.0855	-0.0418	-0.1057	6.4889	1.2361	-0.0884	-0.0079	0.0187	0.0894	-0.2120
41	0.0	11.44	-0.1569	-0.0469	-0.1251	0.2989	0.7972	-0.0855	-0.0087	0.0208	0.1018	-0.2434
42	0.0	12.24	-0.2155	-0.0526	-0.1509	0.2441	0.7003	-0.0782	-0.0069	0.0161	0.0882	-0.2320
43	0.0	12.98	-0.2827	-0.0551	-0.1715	0.1949	0.6066	-0.0946	-0.0087	0.0171	0.0920	-0.1805
44	0.0	13.77	-0.3614	-0.0591	-0.2017	0.1635	0.5582	-0.1088	-0.0106	0.0079	0.0974	-0.0730
45	0.0	14.51	-0.4114	-0.0580	-0.2187	0.1410	0.5316	-0.1155	-0.0116	0.0075	0.1004	-0.0651
46	0.01	15.28	-0.4880	-0.0604	-0.2529	0.1238	0.5183	-0.1218	-0.0116	0.0058	0.0952	-0.0477

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 94 1.10 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 B2WOF16 0.0 10 0 10 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	16.05	-0.5329	-0.0601	-0.2733	0.1128	0.5128	-0.1225	-0.0107	0.0077	0.0873	-0.0627
48	0.01	16.86	-0.5973	-0.0631	-0.3003	0.1056	0.5028	-0.1173	-0.0082	0.0125	0.0699	-0.1067
49	0.01	17.67	-0.6384	-0.0652	-0.3220	0.1021	0.5044	-0.1463	-0.0158	-0.0021	0.1080	0.0147
50	0.01	18.50	-0.6989	-0.0676	-0.3423	0.0967	0.4897	-0.1315	-0.0126	0.0045	0.0958	-0.0341
51	0.01	19.32	-0.7476	-0.0704	-0.3660	0.0942	0.4896	-0.1306	-0.0137	0.0002	0.1049	-0.0014

PAGE 1 OF 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	95	0.85	1.7	0.0	BZWOFU	0.0	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.75	0.03	-0.0976	-0.2813	0.0495	0.0397	-0.0030	0.1083	2.8828	
2	-2.47	0.04	-0.0876	-0.2533	0.0361	0.1074	-0.0040	0.1040	2.8922	
3	-1.89	0.03	-0.0673	-0.1888	0.0228	0.0311	-0.0020	0.1075	2.8051	
4	-1.29	0.04	-0.0542	-0.1041	0.0899	0.0551	-0.0030	0.1050	1.9210	
5	-0.74	0.03	-0.0197	-0.0494	0.0179	0.0105	-0.0020	0.1098	2.5086	
6	-0.18	0.04	-0.0116	0.0122	0.0829	0.0409	-0.0030	0.1083	-1.0552	
7	0.34	0.03	0.0071	0.0711	0.0182	0.0445	-0.0030	0.1149	10.0084	
8	0.87	0.03	0.0228	0.1201	0.0280	0.0278	-0.0030	0.1149	5.2667	
9	1.39	0.03	0.0572	0.1869	0.0184	0.1122	-0.0020	0.1211	3.2678	
10	1.89	0.04	0.0689	0.2535	0.0596	0.0596	-0.0020	0.1211	3.6798	
11	2.40	0.04	0.0820	0.3092	0.0771	0.1190	-0.0030	0.1262	3.7707	
12	2.87	0.03	0.1257	0.3700	0.0283	0.0284	-0.0010	0.1268	2.9437	
13	3.35	0.04	0.1293	0.4279	0.0637	0.0768	-0.0020	0.1249	3.3100	
14	3.81	0.04	0.1383	0.4793	0.0657	0.1110	-0.0020	0.1321	3.4662	
15	4.28	0.03	0.1629	0.5169	0.0267	0.0966	-0.0010	0.1338	3.1734	
16	4.71	0.03	0.1968	0.5674	0.0465	0.0279	0.0	0.1335	2.8835	
17	5.20	0.03	0.2094	0.6248	-0.0183	0.0566	-0.0010	0.1359	2.9840	
18	5.66	0.03	0.2426	0.6623	0.0292	-0.0049	-0.0010	0.1379	2.7303	
19	6.11	0.04	0.2560	0.7145	0.1006	0.0262	-0.0010	0.1360	2.7914	
20	6.56	0.03	0.2774	0.7595	0.0791	0.1292	-0.0020	0.1348	2.7384	
21	7.01	0.01	0.2945	0.7876	0.0136	0.0570	-0.0010	0.1352	2.6747	
22	7.46	0.02	0.3335	0.8580	0.0877	0.0272	-0.0010	0.1361	2.5730	
23	7.91	0.02	0.3496	0.8734	0.0718	0.0445	-0.0010	0.1345	2.4987	
24	8.33	0.02	0.3610	0.9165	0.0761	0.0305	-0.0010	0.1357	2.5391	
25	8.74	0.01	0.3911	0.9532	0.0401	0.0768	-0.0010	0.1325	2.4369	
26	9.20	0.01	0.4472	0.9717	0.0602	0.0287	0.0	0.1292	2.1725	
27	9.58	0.01	0.4561	1.0122	0.0282	-0.0385	0.0010	0.1264	2.2190	
28	10.00	0.01	0.4899	1.0509	0.0303	0.0296	0.0	0.1254	2.1449	
29	10.41	0.01	0.5055	1.0690	0.0324	0.0476	0.0	0.1226	2.1146	
30	10.83	0.02	0.5355	1.1300	0.0606	0.0562	0.0	0.1216	2.1101	
31	11.21	0.01	0.5677	1.1485	0.0105	0.0793	0.0	0.1202	2.0237	
32	11.60	0.01	0.6068	1.1852	0.0206	0.0482	0.0	0.1156	1.9531	
33	11.95	0.0	0.6438	1.2114	-0.0295	-0.0147	0.0010	0.1142	1.8816	
34	12.32	0.01	0.6756	1.2429	0.0229	0.0589	0.0	0.1117	1.8396	
35	12.69	0.0	0.6888	1.2734	-0.0013	-0.0162	0.0010	0.1080	1.8487	
36	13.03	0.01	0.7284	1.3149	0.0210	0.0836	0.0010	0.1044	1.8052	
37	13.40	0.02	0.7581	1.3283	0.0513	0.0782	0.0010	0.1038	1.7522	
38	13.75	0.01	0.7843	1.3587	0.0292	0.0451	0.0010	0.1006	1.7323	
39	14.13	0.01	0.8271	1.4207	0.0011	0.1054	0.0020	0.0902	1.7177	
40	14.47	0.01	0.8418	1.4402	-0.0070	0.0558	0.0020	0.0901	1.7108	
41	14.86	0.01	0.8918	1.4871	-0.0593	0.2020	0.0010	0.0748	1.6676	
42	15.20	0.01	0.9316	1.5044	-0.0411	0.2635	0.0010	0.0783	1.6149	
43	15.56	0.01	0.9508	1.5415	-0.0432	0.1745	0.0010	0.0742	1.6213	
44	15.90	0.01	0.9952	1.5614	-0.0451	0.3061	0.0020	0.0633	1.5690	
45	16.23	0.01	1.0221	1.5657	-0.0537	0.3671	0.0020	0.0636	1.5319	
46	16.56	0.01	1.0453	1.6432	-0.0207	0.1770	0.0020	0.0575	1.5721	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST 6	PART 95	MACH 0.85	RX10-6 1.7	PHI 0.0	CUNF B2WUFO	L 0.0	DEL1 OFF	DEL2 OFF	DEL3 OFF	DEL4 OFF	TRANSITION FIXED
PCINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP		
47	16.90	0.01	1.0858	1.6335	-0.0673	0.3432	0.0020	0.0523	1.5045		
48	17.22	0.01	1.1186	1.6726	-0.0712	0.3326	0.0030	0.0448	1.4953		
49	17.53	0.01	1.1366	1.7394	-0.0795	0.2953	0.0020	0.0421	1.5304		
50	17.88	0.01	1.1811	1.7380	-0.0815	0.3551	0.0020	0.0393	1.4714		
51	18.19	0.01	1.2135	1.7486	-0.1674	0.6043	0.0030	0.0326	1.4409		
52	18.56	0.01	1.2399	1.8266	-0.1332	0.5464	0.0020	0.0226	1.4732		
53	18.88	0.01	1.2568	1.8290	-0.0695	0.3353	0.0030	0.0202	1.4552		
54	19.19	0.02	1.2674	1.8801	-0.0613	0.5457	0.0020	0.0156	1.4834		
55	19.53	0.0	1.3138	1.9581	-0.1045	0.3213	0.0030	0.0052	1.4904		
56	19.87	0.01	1.3335	2.0066	-0.0203	0.3494	0.0020	0.0028	1.5047		
57	20.18	0.0	1.3531	2.0511	-0.0818	0.2705	0.0030	-0.0019	1.5158		
58	20.55	0.0	1.4016	2.0612	-0.0387	0.1212	0.0040	-0.0066	1.4706		
59	20.89	0.01	1.4527	2.1037	-0.0180	0.2622	0.0020	-0.0137	1.4481		
60	21.20	0.0	1.4810	2.1220	-0.0509	0.1432	0.0050	-0.0173	1.4328		
61	21.53	0.01	1.5085	2.1295	0.0811	-0.0035	0.0030	-0.0195	1.4117		
62	21.87	0.01	1.5610	2.1140	0.0543	0.1560	0.0010	-0.0281	1.3543		
63	22.15	0.01	1.5547	2.2528	0.1164	-0.1635	0.0040	-0.0386	1.4491		
64	22.45	0.01	1.5902	2.2921	0.0583	-0.1036	0.0030	-0.0457	1.4414		
65	22.79	-0.01	1.6210	2.3270	-0.0179	0.1540	0.0040	-0.0560	1.4356		
66	23.10	-0.01	1.6808	2.3833	0.1381	-0.3043	0.0040	-0.0615	1.4180		
67	23.42	-0.01	1.7472	2.2563	0.2027	-0.3787	0.0030	-0.0629	1.2914		
68	23.74	-0.01	1.7704	2.4078	0.1680	-0.3422	0.0040	-0.0759	1.3601		
69	24.04	-0.01	1.7832	2.4389	0.1597	-0.1316	0.0030	-0.0808	1.3677		
70	24.36	-0.01	1.7904	2.4958	0.1889	-0.3434	0.0040	-0.0868	1.3940		
71	24.68	0.0	1.8719	2.5027	0.3248	-0.4747	0.0030	-0.0936	1.3370		
72	24.97	-0.01	1.8323	2.5482	0.1932	-0.2404	0.0040	-0.1003	1.3907		
73	25.28	0.01	1.8401	2.6072	0.2017	0.0096	0.0030	-0.1053	1.3795		
74	25.57	-0.01	1.9411	2.6317	0.1225	-0.1045	0.0050	-0.1109	1.3557		
75	25.88	-0.01	1.9952	2.6999	0.1274	-0.0903	0.0040	-0.1202	1.3532		
76	26.17	0.01	2.0340	2.7556	0.1863	0.0432	0.0030	-0.1250	1.3548		
77	26.45	0.0	2.0738	2.7549	0.1927	-0.1838	0.0040	-0.1296	1.3308		
78	26.76	0.01	2.1238	2.8509	0.2452	-0.1213	0.0050	-0.1382	1.3452		
79	27.06	0.0	2.2242	2.9033	0.2622	-0.3260	0.0040	-0.1447	1.3053		
80	27.35	0.0	2.2808	3.0151	0.1070	0.0512	0.0050	-0.1521	1.3219		
81	27.64	-0.01	2.3094	3.0230	0.1805	-0.1827	0.0050	-0.1488	1.3090		
82	27.99	-0.02	2.3984	3.1854	0.0503	0.0486	0.0060	-0.1598	1.3281		
83	28.27	-0.03	2.4368	3.2146	0.0337	0.0508	0.0070	-0.1583	1.3192		
84	28.56	-0.02	2.5276	3.3085	0.1047	0.0944	0.0060	-0.1705	1.3090		
85	28.88	-0.03	2.5448	3.3524	0.0566	-0.0032	0.0060	-0.1745	1.3174		
86	29.21	-0.02	2.5802	3.4389	0.0733	0.0884	0.0070	-0.1849	1.3328		
87	29.50	-0.02	2.7230	3.6228	0.0756	0.0492	0.0080	-0.1951	1.3304		
88	29.81	-0.01	2.7339	3.7465	0.1794	0.1158	0.0080	-0.2071	1.3704		

PAGE 1 OF 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST 6	PART 96	MACH 0.92	RX10-6 1.7	PHI 0.0	CONF 82W0F0	L 0.0	DEL1 OFF	DEL2 OFF	DEL3 OFF	DEL4 OFF	TRANSITION FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.77	0.04	-0.1111	-0.2434	0.1110	0.0680	-0.0060	0.0992	2.1914		
2	-2.49	0.04	-0.0886	-0.2529	0.0635	0.0251	-0.0060	0.0921	2.8551		
3	-1.90	0.03	-0.0828	-0.1811	0.0259	0.0107	-0.0050	0.0925	2.1870		
4	-1.33	0.05	-0.0590	-0.1194	0.1002	0.0687	-0.0060	0.0962	2.0237		
5	-0.76	0.03	-0.0436	-0.0390	0.0192	0.0271	-0.0060	0.0978	0.8936		
6	-0.23	0.03	-0.0104	0.0176	0.0176	0.0394	-0.0050	0.1010	-1.6685		
7	0.32	0.04	-0.0027	0.0828	0.0404	0.0194	-0.0050	0.1025	-30.6592		
8	0.84	0.03	0.0374	0.1436	0.0120	0.0532	-0.0050	0.1039	3.8406		
9	1.37	0.04	0.0488	0.2107	0.0820	0.0242	-0.0050	0.1074	4.3172		
10	1.87	0.04	0.0539	0.2675	0.0405	0.0553	-0.0040	0.1117	4.9636		
11	2.39	0.03	0.0963	0.3251	0.0444	0.0068	-0.0040	0.1104	3.3767		
12	2.86	0.04	0.1006	0.3921	0.0521	0.0910	-0.0050	0.1155	3.8962		
13	3.34	0.04	0.1336	0.4549	0.0483	0.0434	-0.0050	0.1175	3.4054		
14	3.79	0.04	0.1440	0.4943	0.0370	0.0732	-0.0040	0.1218	3.4333		
15	4.22	0.04	0.1551	0.5428	0.0427	0.0112	-0.0040	0.1283	3.5001		
16	4.71	0.04	0.1834	0.5972	0.0560	0.0556	-0.0040	0.1295	3.2565		
17	5.16	0.04	0.2132	0.6394	0.0425	0.0759	-0.0040	0.1332	2.9996		
18	5.64	0.02	0.2296	0.6895	0.0502	-0.0073	-0.0040	0.1375	3.0033		
19	6.08	0.02	0.2513	0.7241	0.1071	0.0271	-0.0040	0.1364	2.8817		
20	6.52	0.02	0.2727	0.7761	0.0941	0.0892	-0.0040	0.1377	2.8464		
21	7.01	0.02	0.2995	0.8256	0.0545	0.0557	-0.0030	0.1387	2.7569		
22	7.44	0.02	0.3234	0.8551	0.0395	0.0857	-0.0030	0.1366	2.6445		
23	7.89	0.01	0.3580	0.8957	0.0150	0.0520	-0.0020	0.1349	2.5022		
24	8.33	0.01	0.3816	0.9416	0.0377	0.0412	-0.0030	0.1322	2.4679		
25	8.77	0.01	0.4170	0.9739	-0.0037	0.0302	-0.0020	0.1297	2.3353		
26	9.15	0.02	0.4239	1.0043	0.0757	0.0720	-0.0030	0.1288	2.3689		
27	9.57	0.01	0.4550	1.0247	0.0569	-0.0347	-0.0020	0.1261	2.2519		
28	9.99	0.02	0.4767	1.0713	0.0664	0.0590	-0.0030	0.1236	2.2472		
29	10.41	0.02	0.5144	1.1216	0.1046	-0.0074	-0.0010	0.1190	2.1802		
30	10.61	0.02	0.5438	1.1314	0.0781	0.0267	-0.0020	0.1141	2.0804		
31	11.22	0.02	0.5652	1.1694	0.0914	-0.0060	-0.0020	0.1117	2.0690		
32	11.58	0.01	0.6171	1.2248	-0.0107	0.0670	-0.0020	0.1098	1.9846		
33	11.95	0.0	0.6571	1.2298	-0.0333	0.0256	-0.0010	0.1043	1.8715		
34	12.36	0.01	0.6700	1.2587	0.0557	-0.0010	-0.0020	0.1019	1.8786		
35	12.68	0.02	0.7134	1.3119	0.0653	0.0406	-0.0020	0.0995	1.8390		
36	13.02	0.01	0.7373	1.3345	0.0408	0.0579	-0.0010	0.0959	1.8039		
37	13.39	0.01	0.7727	1.3859	-0.0047	0.0596	-0.0010	0.0921	1.7936		
38	13.79	0.01	0.8035	1.3758	-0.0538	0.2413	-0.0020	0.0895	1.7122		
39	14.16	0.01	0.8539	1.4512	-0.0234	0.2077	-0.0010	0.0829	1.6995		
40	14.49	0.01	0.8901	1.4735	0.0013	0.1292	-0.0020	0.0804	1.6555		
41	14.82	0.02	0.9129	1.5176	0.0013	0.2072	-0.0010	0.0770	1.6624		
42	15.20	0.02	0.9474	1.5433	-0.0232	0.2534	-0.0020	0.0720	1.6290		
43	15.55	0.01	0.9926	1.5600	-0.0629	0.2430	-0.0010	0.0694	1.5717		
44	15.90	0.02	1.0238	1.6023	-0.0041	0.2627	-0.0010	0.0616	1.5651		
45	16.23	0.01	1.0428	1.6427	-0.0532	0.2534	0.0	0.0608	1.5754		
46	16.59	0.01	1.0786	1.6796	-0.0172	0.1761	0.0	0.0567	1.5573		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6	96	0.92	1.7	0.0	B2W0F0	0.0	DEL1	DEL2	DEL3
							OFF	OFF	OFF
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	16.93	0.02	1.1163	1.7128	-0.0247	0.2735	-0.0010	0.0493	1.5344
48	17.27	0.01	1.1559	1.7572	-0.0357	0.2096	0.0	0.0449	1.5202
49	17.57	0.01	1.1880	1.7553	-0.0755	0.3757	0.0	0.0385	1.4775
50	17.90	0.02	1.2265	1.8274	0.0210	0.2266	0.0	0.0322	1.4899
51	18.23	0.01	1.2532	1.8940	-0.0756	0.2148	0.0	0.0284	1.5113
52	18.56	0.01	1.2737	1.9273	-0.0471	0.1679	0.0010	0.0224	1.5131
53	18.89	0.01	1.3106	1.9306	-0.0963	0.2648	0.0010	0.0148	1.4731
54	19.25	0.0	1.3529	1.9444	-0.0528	0.1919	0.0010	0.0052	1.4372
55	19.57	0.01	1.3713	2.0336	-0.0433	0.2116	0.0	-0.0021	1.4830
56	19.89	0.01	1.3859	2.0252	-0.0166	0.1482	0.0010	-0.0071	1.4613
57	20.24	0.0	1.4538	2.1461	-0.1027	0.2677	0.0010	-0.0192	1.4762
58	20.56	0.0	1.4863	2.0866	-0.0146	0.0574	0.0	-0.0192	1.3904
59	20.90	0.01	1.5749	1.9746	-0.0164	0.2109	0.0	-0.0191	1.2538
60	21.22	0.01	1.6162	2.0548	-0.0987	0.1522	0.0020	-0.0241	1.2714
61	21.59	0.01	1.6640	2.1088	0.1450	-0.1370	0.0010	-0.0281	1.2673
62	21.91	0.0	1.7664	2.0595	0.0108	0.0359	0.0020	-0.0291	1.1659
63	22.23	0.0	1.7687	2.1753	0.0780	-0.1342	0.0010	-0.0375	1.2299
64	22.53	0.0	1.8181	2.1751	0.0397	-0.0176	0.0020	-0.0428	1.1964
65	22.85	-0.01	1.8767	2.2031	0.0840	-0.0486	0.0020	-0.0493	1.1739
66	23.16	0.0	1.8789	2.4249	0.2067	-0.3523	0.0010	-0.0564	1.2907
67	23.47	-0.01	1.9859	2.2500	0.1245	-0.2473	0.0020	-0.0578	1.1330
68	23.78	-0.01	2.0875	2.2748	0.1073	-0.2132	0.0040	-0.0493	1.0897
69	24.11	-0.01	2.1216	2.2940	0.0307	-0.0490	0.0020	-0.0556	1.0813
70	24.44	-0.01	2.1304	2.4137	0.1556	-0.2288	0.0020	-0.0814	1.1330
71	24.73	0.0	2.1839	2.3958	0.1810	-0.1324	0.0020	-0.0703	1.0970
72	25.06	-0.01	2.2415	2.4842	0.1002	-0.1183	0.0030	-0.0956	1.1100
73	25.36	-0.01	2.2716	2.6660	0.0542	0.0591	0.0030	-0.1025	1.1736
74	25.67	-0.01	2.4084	2.6055	0.1088	0.0007	0.0020	-0.0892	1.0818
75	25.96	0.0	2.3913	2.8104	0.1300	-0.0530	0.0030	-0.1156	1.1753
76	26.27	-0.01	2.3629	3.1391	0.1611	-0.1765	0.0030	-0.1229	1.3285
77	26.56	-0.01	2.3464	3.2982	0.0694	0.0118	0.0040	-0.1300	1.4056
78	26.88	0.0	2.5711	3.1376	0.0956	0.0682	0.0050	-0.1313	1.2204
79	27.19	-0.01	2.5949	3.4633	0.1206	-0.0521	0.0050	-0.1424	1.3321
80	27.51	-0.01	2.6071	3.6042	0.0685	0.0501	0.0060	-0.1465	1.3825
81	27.83	-0.01	2.6964	3.7460	0.1190	-0.0716	0.0050	-0.1537	1.3892
82	28.14	0.0	2.7590	3.9453	0.1152	0.0507	0.0060	-0.1604	1.4300
83	28.42	0.0	2.8024	3.9736	-0.0085	0.3279	0.0060	-0.1667	1.4179
84	28.75	0.0	2.9041	4.2222	0.0883	0.1344	0.0070	-0.1696	1.4538
85	29.04	-0.01	2.9649	4.2470	0.1483	-0.0176	0.0090	-0.1780	1.4324
86	29.38	0.0	2.9541	4.3091	0.1620	0.1542	0.0060	-0.1881	1.4587
87	29.72	0.02	3.1235	4.6569	0.1602	0.2517	0.0080	-0.1927	1.4909

PAGE 1 OF 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	97	0.97	1.7	0.0	82NOFO	0.0	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.78	0.05	-0.1123	-0.2617	0.0765	0.0549	-0.0060	0.1215	2.3311		
2	-2.78	0.04	-0.0984	-0.2552	0.0490	0.0634	-0.0060	0.1219	2.5939		
3	-2.14	0.03	-0.0875	-0.2165	-0.0025	0.0365	-0.0060	0.1208	2.4743		
4	-1.54	0.04	-0.0617	-0.1236	0.0513	0.0542	-0.0060	0.1165	2.0036		
5	-0.96	0.03	-0.0444	-0.0558	0.0739	0.0325	-0.0060	0.1159	1.2577		
6	-0.43	0.04	-0.0230	-0.0018	0.0417	0.0516	-0.0060	0.1202	0.0783		
7	0.14	0.03	-0.0043	0.0820	0.0195	0.0497	-0.0060	0.1232	-19.0744		
8	0.66	0.04	0.0177	0.1292	0.0282	0.0935	-0.0060	0.1260	7.3006		
9	1.20	0.03	0.0398	0.2223	0.0283	0.0474	-0.0060	0.1308	5.5849		
10	1.69	0.04	0.0505	0.2803	0.0644	0.0218	-0.0050	0.1314	5.5505		
11	2.21	0.04	0.0722	0.3319	0.0576	0.0254	-0.0050	0.1300	4.5972		
12	2.68	0.04	0.1024	0.3836	0.0336	-0.0080	-0.0050	0.1351	3.7465		
13	3.17	0.04	0.1130	0.4507	0.0852	0.0547	-0.0060	0.1393	3.9894		
14	3.65	0.04	0.1357	0.5110	0.0459	0.0567	-0.0050	0.1477	3.7658		
15	4.13	0.04	0.1689	0.5685	0.0513	0.0772	-0.0050	0.1525	3.3661		
16	4.57	0.03	0.1769	0.6013	-0.0159	0.1092	-0.0050	0.1590	3.3993		
17	5.05	0.03	0.2038	0.6516	-0.0348	0.1017	-0.0040	0.1652	3.1976		
18	5.50	0.03	0.2369	0.7012	0.0359	0.0517	-0.0040	0.1739	2.9605		
19	5.94	0.01	0.2724	0.7605	0.0136	0.0080	-0.0040	0.1820	2.7924		
20	6.40	0.01	0.2709	0.7896	0.0429	0.0509	-0.0040	0.1840	2.9152		
21	6.86	0.01	0.3044	0.8587	-0.0240	0.0806	-0.0040	0.1893	2.8214		
22	7.35	0.0	0.3377	0.8961	-0.0102	-0.0167	-0.0030	0.1926	2.6539		
23	7.78	0.01	0.3694	0.9267	0.0173	0.0198	-0.0030	0.1879	2.5090		
24	8.21	0.01	0.4049	0.9829	0.0020	0.0852	-0.0040	0.1900	2.4272		
25	8.61	0.03	0.4178	0.9968	0.1302	0.0617	-0.0040	0.1864	2.3856		
26	9.04	0.0	0.4586	1.0547	-0.0524	0.0004	-0.0030	0.1844	2.2946		
27	9.44	0.01	0.4777	1.0999	0.0466	0.0368	-0.0030	0.1778	2.3024		
28	9.85	0.02	0.5027	1.1329	0.0660	0.0466	-0.0030	0.1753	2.2535		
29	10.28	0.01	0.5115	1.1486	0.0143	-0.0260	-0.0020	0.1660	2.2454		
30	10.69	0.02	0.5727	1.1959	0.0590	0.0834	-0.0030	0.1603	2.0881		
31	11.07	0.02	0.5965	1.2286	0.0920	0.0762	-0.0030	0.1518	2.0596		
32	11.48	0.04	0.6341	1.2740	0.0939	-0.0055	-0.0030	0.1481	2.0090		
33	11.86	0.05	0.6526	1.2881	0.1409	0.0627	-0.0040	0.1398	1.9737		
34	12.22	0.04	0.6885	1.3178	0.0876	0.0654	-0.0040	0.1367	1.9140		
35	12.60	0.04	0.7297	1.3601	0.0479	0.0799	-0.0020	0.1319	1.8639		
36	12.99	0.04	0.7682	1.4172	0.0531	0.0497	-0.0020	0.1322	1.8448		
37	13.34	0.04	0.8175	1.4642	0.0690	0.0524	-0.0020	0.1310	1.7910		
38	13.72	0.04	0.8427	1.5059	0.0691	0.1002	-0.0020	0.1298	1.7917		
39	14.08	0.04	0.8930	1.5435	0.0710	0.0256	-0.0020	0.1290	1.7284		
40	14.41	0.03	0.9300	1.5757	-0.0418	0.1495	-0.0020	0.1279	1.6986		
41	14.79	0.04	0.9642	1.6188	0.0363	0.1292	-0.0020	0.1209	1.6789		
42	15.14	0.04	1.0012	1.6390	0.0364	0.0720	-0.0010	0.1167	1.6371		
43	15.52	0.03	1.0414	1.7087	0.0174	0.1036	-0.0010	0.1168	1.6408		
44	15.85	0.03	1.0754	1.7301	-0.0034	0.1727	-0.0020	0.1108	1.6088		
45	16.18	0.02	1.1160	1.7592	0.0175	0.0915	-0.0010	0.1091	1.5764		
46	16.50	0.03	1.1609	1.7862	0.0368	0.2215	-0.0010	0.1027	1.5386		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

	TEST 6	PART 97	MACH 0.97	RX10-6 1.7	PHI 0.0	CONF 82WOFU	L 0.0	DEL1 OFF	DEL2 OFF	DEL3 OFF	DEL4 OFF	TRANSITION FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	16.83	0.01	1.1906	1.7757	-0.0049	0.1608	-0.0010	0.1021	1.4913			
48	17.21	0.02	1.2493	1.8715	-0.0082	0.2125	-0.0020	0.0972	1.4980			
49	17.51	0.01	1.2470	1.8437	-0.0151	0.1521	-0.0010	0.0962	1.4784			
50	17.83	0.01	1.3171	1.8885	-0.0428	0.2699	-0.0010	0.0908	1.4338			
51	18.15	0.01	1.3411	1.9289	-0.0582	0.2824	-0.0010	0.0891	1.4383			
52	18.53	0.01	1.4069	1.9438	-0.1066	0.3542	0.0	0.0862	1.3816			
53	18.86	0.02	1.4587	2.0123	-0.0528	0.3169	0.0	0.0832	1.3795			
54	19.20	0.02	1.4938	2.0111	-0.0267	0.3003	0.0	0.0787	1.3463			
55	19.51	0.02	1.5305	2.0728	0.0218	0.2065	0.0	0.0773	1.3543			
56	19.84	0.01	1.6001	2.0963	-0.0592	0.2699	0.0010	0.0705	1.3101			
57	20.18	0.02	1.6727	2.1737	-0.0246	0.2414	0.0	0.0636	1.2995			
58	20.58	0.02	1.7264	2.2155	0.0204	0.1594	0.0020	0.0553	1.2833			
59	20.90	0.0	1.7741	2.2797	-0.0279	0.0021	0.0010	0.0459	1.2850			
60	21.23	0.02	1.8516	2.2992	0.0275	0.1185	0.0010	0.0407	1.2418			
61	21.54	0.01	1.8601	2.3503	0.0184	0.0005	0.0010	0.0306	1.2635			
62	21.87	0.02	1.9215	2.3842	0.0813	-0.0058	0.0020	0.0161	1.2408			
63	22.24	0.01	2.0080	2.4581	0.0677	-0.0278	0.0010	0.0086	1.2241			
64	22.55	0.01	2.0727	2.4805	0.1026	-0.0896	0.0020	-0.0020	1.1967			
65	22.85	0.02	2.1371	2.5633	0.0995	-0.0033	0.0010	-0.0107	1.1994			
66	23.18	0.02	2.1834	2.6205	0.1100	-0.0360	0.0010	-0.0166	1.2002			
67	23.49	0.02	2.2651	2.6835	0.1364	0.0070	0.0020	-0.0257	1.1826			
68	23.83	0.02	2.3449	2.8044	0.0532	0.0275	0.0030	-0.0316	1.1710			
69	24.12	0.01	2.4628	2.8863	0.2014	-0.1709	0.0020	-0.0355	1.1720			
70	24.45	0.0	2.5410	3.0028	0.1492	-0.1509	0.0030	-0.0368	1.1817			
71	24.79	0.0	2.6305	3.0705	0.1365	-0.0966	0.0030	-0.0398	1.1673			
72	25.12	-0.01	2.7090	3.1884	0.1127	-0.0868	0.0030	-0.0481	1.1770			
73	25.44	0.0	2.7664	3.2541	0.1198	-0.0367	0.0030	-0.0538	1.1781			
74	25.78	0.0	2.9263	3.3862	0.0347	0.2104	0.0040	-0.0581	1.1571			
75	26.08	0.01	2.9713	3.4692	0.1681	0.0707	0.0040	-0.0580	1.1676			
76	26.39	-0.01	3.0563	3.6062	0.0453	0.0816	0.0050	-0.0635	1.1799			
77	26.70	0.0	3.1430	3.6218	0.1095	0.0077	0.0040	-0.0714	1.1523			
78	26.99	0.0	3.1960	3.6936	0.1269	0.0093	0.0050	-0.0752	1.1557			
79	27.29	-0.01	3.2803	3.8045	0.0924	0.0876	0.0060	-0.0845	1.1598			
80	27.62	0.0	3.3694	3.9108	0.1066	0.1127	0.0050	-0.0915	1.1607			
81	27.94	-0.01	3.4665	4.0417	-0.0060	0.2104	0.0060	-0.1026	1.1659			
82	28.22	0.0	3.4917	4.1014	0.0722	0.1649	0.0070	-0.1106	1.1746			
83	28.51	-0.01	3.5891	4.1770	0.0568	0.1625	0.0080	-0.1217	1.1638			
84	28.86	0.01	3.6928	4.2798	0.0657	0.2930	0.0060	-0.1323	1.1590			
85	29.19	-0.02	3.7807	4.4277	-0.0560	0.2504	0.0090	-0.1315	1.1711			
86	29.47	-0.04	3.7780	4.3895	-0.0177	-0.1212	0.0130	-0.1334	1.1619			
87	29.80	0.07	3.8721	4.7577	0.3131	0.8845	0.0050	-0.1491	1.2287			
88	30.11	-0.04	3.8916	4.8814	-0.0124	-0.1426	0.0110	-0.1565	1.2543			
89	30.25	0.07	3.9016	5.1784	0.2152	0.5596	0.0060	-0.1614	1.3272			

PAGE 1 OF 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	98	1.01	1.7	0.0	B2WFO	0.0	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.19	0.04	-0.1226	-0.2823	0.0400	0.0450	-0.0070	0.1772	2.3031	
2	-2.63	0.05	-0.1153	-0.2705	0.0755	0.0317	-0.0070	0.1757	2.3467	
3	-2.02	0.04	-0.0893	-0.1880	0.0521	0.0411	-0.0080	0.1707	2.1050	
4	-1.40	0.01	-0.0540	-0.1364	0.0262	-0.0337	-0.0060	0.1726	2.5259	
5	-0.86	0.03	-0.0449	-0.0441	0.0750	0.0424	-0.0080	0.1729	0.9831	
6	-0.33	0.04	-0.0131	0.0103	0.0483	0.0214	-0.0070	0.1780	-0.7893	
7	0.23	0.04	0.0122	0.0949	0.0385	0.0501	-0.0070	0.1818	7.7603	
8	0.74	0.05	0.0244	0.1578	0.0828	0.0371	-0.0070	0.1870	6.4689	
9	1.27	0.04	0.0398	0.2253	0.0386	0.0899	-0.0070	0.1851	5.6603	
10	1.78	0.04	0.0788	0.2816	0.0174	0.0606	-0.0070	0.1891	3.5146	
11	2.29	0.04	0.0872	0.3429	0.0698	0.0333	-0.0070	0.1924	3.9326	
12	2.76	0.03	0.1099	0.4181	-0.0054	0.0736	-0.0060	0.1995	3.8047	
13	3.27	0.04	0.1227	0.4682	0.0470	0.0352	-0.0060	0.2042	3.8160	
14	3.73	0.04	0.1559	0.5247	0.0210	0.0366	-0.0060	0.2086	3.3659	
15	4.21	0.04	0.1810	0.5865	0.0484	0.0715	-0.0060	0.2103	3.2409	
16	4.66	0.04	0.2016	0.6387	0.0355	0.0437	-0.0060	0.2134	3.1685	
17	5.12	0.04	0.2082	0.6814	-0.0001	0.0911	-0.0060	0.2195	3.2734	
18	5.56	0.03	0.2396	0.7435	0.0836	0.1039	-0.0060	0.2225	3.1033	
19	6.05	0.02	0.2668	0.7994	0.0411	0.0475	-0.0050	0.2266	2.9965	
20	6.52	0.02	0.2828	0.8570	0.0340	0.0448	-0.0060	0.2298	3.0307	
21	6.96	0.02	0.3142	0.8830	0.0706	0.0512	-0.0060	0.2269	2.8107	
22	7.40	0.01	0.3485	0.9490	0.0150	-0.0070	-0.0040	0.2217	2.7234	
23	7.82	0.02	0.3666	0.9796	0.0544	0.0528	-0.0050	0.2199	2.6726	
24	8.28	0.02	0.4066	1.0165	0.0726	-0.0046	-0.0050	0.2113	2.4997	
25	8.71	0.01	0.4362	1.0492	0.0284	0.0062	-0.0040	0.2070	2.3942	
26	9.16	0.0	0.4538	1.0964	-0.0158	-0.0249	-0.0040	0.2102	2.4158	
27	9.57	-0.01	0.5027	1.1519	-0.0550	-0.0400	-0.0040	0.2017	2.2913	
28	9.98	0.02	0.5317	1.1883	0.0763	0.0892	-0.0050	0.2022	2.2346	
29	10.39	0.03	0.5534	1.2269	0.1296	0.0442	-0.0050	0.2005	2.2170	
30	10.78	0.03	0.5985	1.2648	0.1159	0.0427	-0.0040	0.1949	2.1132	
31	11.18	0.01	0.6229	1.3076	0.0322	0.0129	-0.0040	0.1921	2.0992	
32	11.56	0.03	0.6669	1.3390	0.0335	0.0265	-0.0040	0.1949	2.0078	
33	11.92	0.04	0.6997	1.3771	0.0602	0.0367	-0.0040	0.1939	1.9681	
34	12.32	0.02	0.7312	1.4310	0.0012	-0.0417	-0.0030	0.1865	1.9570	
35	12.72	0.03	0.7631	1.4573	0.0177	0.0342	-0.0030	0.1847	1.9097	
36	13.07	0.03	0.7869	1.5050	0.0489	-0.0465	-0.0030	0.1830	1.9177	
37	13.43	0.04	0.8314	1.5597	0.0883	0.0164	-0.0040	0.1817	1.8760	
38	13.78	0.02	0.8664	1.5967	-0.0294	0.0672	-0.0030	0.1790	1.8429	
39	14.16	0.03	0.9217	1.6693	0.0099	0.0261	-0.0030	0.1780	1.6111	
40	14.52	0.02	0.9483	1.6970	-0.0407	0.0590	-0.0020	0.1789	1.7896	
41	14.88	0.02	1.0025	1.7601	-0.0422	0.0541	-0.0020	0.1743	1.7558	
42	15.25	0.03	1.0626	1.7950	0.0183	0.0014	-0.0020	0.1694	1.7217	
43	15.60	0.03	1.0731	1.8333	0.0331	0.0567	-0.0020	0.1684	1.7085	
44	15.95	0.05	1.1162	1.8949	0.0561	0.1954	-0.0030	0.1637	1.6977	
45	16.28	0.03	1.1681	1.9391	0.0022	0.1229	-0.0010	0.1581	1.6600	
46	16.63	0.03	1.2115	1.9924	0.1069	0.0253	-0.0020	0.1577	1.6445	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	98	1.01	1.7	0.0	82W0F0	0.0	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP	
47	16.96	0.01	1.2610	2.0091	-0.0352	0.1433	-0.0010	0.1506	1.5932	
48	17.30	0.02	1.2921	2.0515	0.0449	0.0751	-0.0010	0.1493	1.5877	
49	17.64	0.01	1.3434	2.1117	0.0254	0.0374	-0.0010	0.1449	1.5719	
50	17.97	0.0	1.4007	2.1555	-0.0218	0.0425	0.0	0.1436	1.5368	
51	18.31	0.01	1.4414	2.1915	0.0403	0.0206	-0.0010	0.1326	1.5204	
52	18.64	0.01	1.4840	2.1928	0.0240	0.0494	0.0	0.1240	1.4776	
53	18.97	0.0	1.5198	2.2177	-0.0053	0.0004	0.0	0.1129	1.4592	
54	19.30	0.02	1.5745	2.2581	0.0160	0.1706	0.0	0.1008	1.4342	
55	19.65	0.01	1.6272	2.2913	0.0080	0.0868	0.0	0.0937	1.4082	
56	19.97	0.02	1.6660	2.3150	0.0146	0.1515	0.0	0.0850	1.3920	
57	20.31	0.02	1.7261	2.3269	-0.0509	0.3512	0.0	0.0721	1.3481	
58	20.66	0.02	1.7842	2.3895	0.0148	0.2083	0.0	0.0587	1.3393	
59	21.00	0.01	1.8185	2.4095	-0.0229	0.1660	0.0	0.0476	1.3250	
60	21.33	0.02	1.8947	2.4568	0.0745	-0.0253	0.0	0.0349	1.2967	
61	21.69	0.01	1.9503	2.5148	0.0367	0.0366	0.0010	0.0284	1.2894	
62	22.00	0.02	2.0177	2.5755	0.0583	0.0694	0.0010	0.0236	1.2764	
63	22.34	0.02	2.1162	2.6306	0.0105	0.1453	0.0010	0.0149	1.2430	
64	22.65	0.01	2.1682	2.6837	0.1017	-0.0914	0.0010	0.0124	1.2378	
65	22.96	0.02	2.2531	2.7759	0.0952	0.1497	0.0010	0.0138	1.2320	
66	23.32	0.02	2.3636	2.8752	0.1351	-0.1041	0.0010	0.0205	1.2164	
67	23.64	0.01	2.5048	2.9905	0.1600	-0.2470	0.0010	0.0322	1.1939	
68	23.98	0.02	2.5613	3.1274	0.1231	-0.0733	0.0030	0.0373	1.2116	
69	24.31	0.01	2.6783	3.2354	0.1340	-0.1406	0.0030	0.0422	1.2080	
70	24.66	0.0	2.7285	3.3861	0.1005	-0.0043	0.0020	0.0161	1.2410	
71	24.99	0.0	2.8811	3.4275	0.0827	0.0672	0.0020	0.0269	1.1896	
72	25.34	0.01	2.9452	3.4537	0.1661	0.0185	0.0040	0.0452	1.1727	
73	25.65	0.0	3.0587	3.5018	0.1916	-0.1152	0.0040	0.0411	1.1449	
74	25.98	-0.02	3.1565	3.6199	0.0522	-0.0151	0.0060	0.0360	1.1468	
75	26.26	0.01	3.1847	3.6584	0.1548	0.0753	0.0040	0.0266	1.1487	
76	26.59	0.0	3.2592	3.7951	0.1357	0.0290	0.0050	0.0058	1.1644	
77	26.87	0.0	3.3418	3.8904	0.1037	0.1678	0.0060	-0.0083	1.1642	
78	27.16	0.0	3.3799	4.0261	0.0702	0.3177	0.0050	-0.0282	1.1912	
79	27.52	0.0	3.4868	4.2142	0.1137	0.1578	0.0060	-0.0442	1.2100	
80	27.82	-0.01	3.5440	4.2811	0.0706	0.1601	0.0060	-0.0427	1.2080	
81	28.15	0.0	3.6281	4.4274	0.0290	0.3654	0.0070	-0.0429	1.2203	
82	28.43	0.0	3.7158	4.4056	0.0873	0.2327	0.0070	-0.0443	1.1856	
83	28.73	-0.01	3.7736	4.5047	0.0019	0.3003	0.0070	-0.0480	1.1937	
84	29.06	0.0	3.8656	4.6528	0.1005	0.2803	0.0070	-0.0577	1.2037	
85	29.40	0.0	3.9543	4.7057	0.0329	0.3439	0.0070	-0.0685	1.1900	
86	29.69	-0.02	3.9780	4.9245	0.0232	0.1025	0.0090	-0.0737	1.2379	
87	29.99	-0.08	4.0827	4.8259	-0.0852	-0.7046	0.0140	-0.0915	1.1820	
88	30.33	-0.01	4.1729	4.9966	0.0640	0.1244	0.0070	-0.0977	1.1974	
89	30.38	-0.03	4.2367	5.1291	-0.0410	0.1444	0.0070	-0.0689	1.2106	

PAGE 1 OF 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	99	1.05	1.7	0.0	82WOF0	0.0	OFF	OFF	OFF	OFF	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-2.79	0.03	-0.1046	-0.2735	-0.0102	-0.0057	-0.0070	0.2011	2.6153		
2	-2.74	0.04	-0.1345	-0.3047	0.0135	0.0551	-0.0080	0.2119	2.2654		
3	-2.11	0.05	-0.0931	-0.2136	0.0085	0.0531	-0.0080	0.2075	2.2950		
4	-1.49	0.03	-0.0670	-0.1622	0.0528	0.0701	-0.0080	0.2093	2.4209		
5	-0.93	0.04	-0.0565	-0.0819	0.0644	0.0638	-0.0080	0.2066	1.4496		
6	-0.37	0.03	-0.0293	-0.0040	0.0153	0.0716	-0.0080	0.2088	0.1358		
7	0.16	0.04	-0.0021	0.0709	0.0746	-0.0104	-0.0080	0.2146	-33.7809		
8	0.71	0.04	0.0161	0.1334	0.0747	0.0534	-0.0080	0.2152	8.2894		
9	1.22	0.04	0.0321	0.2140	0.0555	0.0323	-0.0080	0.2213	6.6685		
10	1.72	0.04	0.0554	0.2634	0.1002	0.0357	-0.0080	0.2280	4.7552		
11	2.24	0.04	0.0773	0.3277	0.0476	0.0993	-0.0070	0.2226	4.2404		
12	2.70	0.04	0.0913	0.3731	0.0700	0.0270	-0.0070	0.2190	4.0874		
13	3.22	0.03	0.1288	0.4646	-0.0065	0.0721	-0.0070	0.2373	3.6078		
14	3.68	0.04	0.1495	0.5036	0.0430	0.0398	-0.0070	0.2405	3.3692		
15	4.15	0.04	0.1668	0.5504	0.0661	0.0705	-0.0060	0.2380	3.3002		
16	4.61	0.04	0.1991	0.6152	0.0894	0.0568	-0.0070	0.2539	3.1103		
17	5.06	0.02	0.2129	0.6649	0.0177	0.0362	-0.0060	0.2630	3.1232		
18	5.53	0.03	0.2578	0.7230	0.0255	0.0269	-0.0070	0.2616	2.8048		
19	5.97	0.03	0.2711	0.7694	0.1026	0.0813	-0.0060	0.2606	2.8383		
20	6.46	0.02	0.2915	0.8338	0.0467	0.0456	-0.0060	0.2684	2.8607		
21	6.92	0.01	0.3231	0.8615	0.0292	0.0631	-0.0060	0.2734	2.6669		
22	7.38	0.01	0.3468	0.9004	0.0581	0.0017	-0.0060	0.2810	2.5965		
23	7.80	0.03	0.3818	0.9534	0.1265	0.0643	-0.0060	0.2775	2.4973		
24	8.23	0.01	0.4208	0.9936	0.0231	0.0856	-0.0050	0.2805	2.3610		
25	8.65	0.02	0.4477	1.0289	0.0615	0.0209	-0.0050	0.2808	2.2981		
26	9.09	0.02	0.4833	1.0631	0.0085	0.0615	-0.0050	0.2807	2.1995		
27	9.48	0.03	0.5069	1.1011	0.1046	0.0166	-0.0050	0.2784	2.1720		
28	9.93	0.01	0.5465	1.1228	0.0138	-0.0473	-0.0050	0.2719	2.0470		
29	10.31	0.02	0.5712	1.1600	0.0840	-0.0096	-0.0050	0.2694	2.0306		
30	10.74	0.03	0.6172	1.2096	0.0953	0.0416	-0.0060	0.2646	1.9598		
31	11.13	0.03	0.6450	1.2167	0.1145	0.0547	-0.0060	0.2614	1.8863		
32	11.53	0.05	0.6753	1.2773	0.0986	0.0989	-0.0050	0.2564	1.8414		
33	11.91	0.01	0.7066	1.2954	-0.0511	-0.0525	-0.0050	0.2517	1.8333		
34	12.33	0.03	0.7666	1.3674	0.0701	-0.0851	-0.0040	0.2515	1.7838		
35	12.66	0.03	0.7647	1.3821	0.0383	-0.0046	-0.0040	0.2501	1.7613		
36	13.01	0.03	0.8189	1.4322	0.0113	0.0052	-0.0040	0.2490	1.7490		
37	13.34	0.03	0.8551	1.4605	0.0241	0.0653	-0.0040	0.2422	1.7080		
38	13.76	0.03	0.8875	1.4892	0.0401	0.0224	-0.0040	0.2406	1.6780		
39	14.15	0.03	0.9527	1.5319	0.0482	-0.0205	-0.0040	0.2370	1.6000		
40	14.50	0.04	0.9773	1.5464	0.0499	0.0691	-0.0040	0.2370	1.5824		
41	14.84	0.03	1.0257	1.5927	-0.0376	0.1056	-0.0030	0.2385	1.5528		
42	15.22	0.05	1.0592	1.6258	0.0977	0.0752	-0.0030	0.2334	1.5350		
43	15.57	0.04	1.0839	1.6552	0.0118	0.1555	-0.0030	0.2359	1.5271		
44	15.91	0.05	1.1311	1.6751	0.0819	0.1273	-0.0040	0.2358	1.4810		
45	16.24	0.01	1.1831	1.7412	-0.0356	0.1278	-0.0020	0.2282	1.4716		
46	16.56	0.0	1.2454	1.7749	-0.0434	0.0628	-0.0020	0.2283	1.4251		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST 6	PART 99	MACH 1.05	RX10-6 1.7	PHI 0.0	CONF 82WUFO	L 0.0	DEL1 OFF	DEL2 OFF	DEL3 OFF	DEL4 OFF	TRANSITION FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	16.93	0.02	1.2943	1.8135	0.0297	0.1984	-0.0030	0.2221	1.4011		
48	17.28	0.01	1.3356	1.8426	-0.0464	0.1909	-0.0020	0.2142	1.3796		
49	17.58	0.01	1.3640	1.8109	-0.0527	0.1508	-0.0020	0.2142	1.3276		
50	17.90	0.0	1.4330	1.8703	-0.0795	0.1113	-0.0020	0.2115	1.3051		
51	18.22	0.01	1.4661	1.8659	-0.1064	0.3489	-0.0020	0.2130	1.2727		
52	18.58	0.02	1.5172	1.8814	-0.0190	0.2416	-0.0020	0.2057	1.2400		
53	18.94	0.0	1.5655	1.9428	-0.1171	0.2289	-0.0010	0.1999	1.2410		
54	19.30	0.02	1.6224	1.9621	-0.0599	0.3618	-0.0010	0.1852	1.2094		
55	19.61	0.01	1.6480	1.9833	-0.0424	0.1583	-0.0010	0.1905	1.2034		
56	19.94	0.02	1.7212	2.0178	-0.0677	0.3927	0.0	0.1783	1.1723		
57	20.25	0.03	1.7685	2.1015	0.0100	0.2890	-0.0010	0.1801	1.1883		
58	20.62	0.02	1.8239	2.1150	0.0116	0.1857	0.0	0.1726	1.1596		
59	20.97	0.01	1.9000	2.1694	-0.0183	0.1166	-0.0010	0.1610	1.1418		
60	21.35	0.02	1.9710	2.2259	0.0784	0.0492	-0.0010	0.1523	1.1293		
61	21.65	0.02	2.0411	2.2657	0.1117	-0.1174	0.0	0.1486	1.1100		
62	21.97	0.02	2.1268	2.3248	0.0818	-0.0205	0.0010	0.1322	1.0931		
63	22.30	0.01	2.2188	2.4389	0.1105	-0.1527	0.0	0.1255	1.0592		
64	22.63	0.01	2.2955	2.4746	0.1438	-0.1563	0.0	0.1165	1.0780		
65	22.95	0.02	2.3844	2.5381	0.1187	-0.0572	0.0010	0.1104	1.0645		
66	23.27	0.03	2.4791	2.5755	0.1664	-0.0490	0.0	0.1256	1.0389		
67	23.58	0.03	2.4967	2.6739	0.1581	-0.0933	0.0010	0.0971	1.0710		
68	23.95	0.0	2.6437	2.7830	0.0907	-0.0460	0.0020	0.1037	1.0527		
69	24.30	0.01	2.7335	2.8422	0.1527	0.0192	0.0020	0.0911	1.0397		
70	24.63	0.01	2.8158	2.9269	0.1181	0.0287	0.0020	0.0861	1.0345		
71	24.97	0.02	2.8916	3.0378	0.1881	-0.0023	0.0020	0.0821	1.0506		
72	25.28	0.01	2.9742	3.1452	0.2105	-0.0247	0.0030	0.0576	1.0575		
73	25.59	0.0	3.0497	3.1644	0.1107	-0.0560	0.0020	0.0791	1.0376		
74	25.89	0.0	3.1527	3.2992	0.1077	-0.0208	0.0030	0.0856	1.0465		
75	26.18	0.02	3.2379	3.3679	0.1713	0.1062	0.0030	0.0809	1.0402		
76	26.50	-0.01	3.3479	3.4429	0.0349	0.1011	0.0040	0.0834	1.0284		
77	26.82	-0.01	3.4206	3.4861	0.1079	0.0969	0.0030	0.0861	1.0192		
78	27.12	-0.01	3.5030	3.5536	0.0684	0.1492	0.0030	0.0809	1.0144		
79	27.45	-0.01	3.6468	3.6773	0.0544	0.1898	0.0050	0.0777	1.0084		
80	27.76	0.0	3.7342	3.7449	0.0846	0.1635	0.0040	0.0671	1.0029		
81	28.08	-0.01	3.7932	3.8263	0.0784	0.1872	0.0050	0.0642	1.0087		
82	28.41	-0.01	3.8862	3.9781	0.0089	0.2875	0.0050	0.0392	1.0237		
83	28.72	0.0	3.9622	3.9807	0.1151	0.2448	0.0050	0.0321	1.0047		
84	29.04	-0.01	4.0180	4.0346	-0.0067	0.2823	0.0060	0.0262	1.0041		
85	29.35	0.01	4.1344	4.1526	0.0474	0.3826	0.0050	0.0027	1.0044		
86	29.66	-0.01	4.2603	4.2692	-0.0096	0.2894	0.0070	-0.0104	1.0021		
87	29.97	0.0	4.2664	4.3236	0.0414	0.3390	0.0060	-0.0071	1.0134		
88	30.32	-0.01	4.4105	4.4279	0.1355	-0.0727	0.0110	-0.0244	1.0039		
89	30.35	-0.01	4.4445	4.4523	-0.0188	0.2993	0.0070	-0.0159	1.0017		

PAGE 1 OF 1
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	1.00	1.10	1.7	0.0	0.2W0F0	0.0	OFF	OFF	OFF	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	-2.79	0.04	-0.1313	-0.2651	0.0409	-0.0123	-0.0070	0.2292	2.0197	
2	-2.64	0.04	-0.1248	-0.2582	0.0255	0.1203	-0.0070	0.2343	2.0696	
3	-1.99	0.04	-0.0977	-0.1892	0.1059	0.1557	-0.0080	0.2202	1.9367	
4	-1.40	0.03	-0.0683	-0.1064	0.1048	-0.0177	-0.0070	0.2197	1.5575	
5	-0.86	0.02	-0.0504	-0.0424	0.0083	0.1604	-0.0080	0.2202	0.8421	
6	-0.30	0.02	-0.0303	0.0514	0.0102	0.1497	-0.0080	0.2235	-1.6970	
7	0.23	0.02	-0.0040	0.1146	0.0180	0.1688	-0.0070	0.2227	-28.6500	
8	0.78	0.02	0.0190	0.1794	0.0411	0.0894	-0.0070	0.2295	9.4421	
9	1.28	0.03	0.0379	0.2559	0.0227	0.1772	-0.0080	0.2318	6.7530	
10	1.81	0.03	0.0489	0.3085	0.0720	0.0702	-0.0070	0.2351	6.3096	
11	2.30	0.01	0.0790	0.3704	-0.0845	0.2553	-0.0060	0.2458	4.6886	
12	2.80	0.03	0.1095	0.4156	0.1089	0.0345	-0.0070	0.2485	3.7963	
13	3.28	0.0	0.1383	0.4923	-0.0108	0.0221	-0.0050	0.2590	3.5602	
14	3.75	0.02	0.1463	0.5381	0.0507	0.0270	-0.0060	0.2706	3.6786	
15	4.21	0.01	0.1710	0.6185	-0.0137	0.1352	-0.0060	0.2795	3.6175	
16	4.68	0.03	0.1847	0.6493	0.1154	0.0544	-0.0060	0.2895	3.5161	
17	5.14	0.0	0.2304	0.7003	-0.0334	0.0568	-0.0050	0.2898	3.0401	
18	5.61	0.04	0.2296	0.7805	0.1308	0.1409	-0.0060	0.3059	3.3997	
19	6.07	0.01	0.2662	0.8432	-0.0608	0.1291	-0.0040	0.3101	3.1680	
20	6.54	0.02	0.2809	0.8766	0.0097	0.0914	-0.0050	0.3135	3.1212	
21	6.99	0.04	0.3318	0.9344	0.0526	0.1673	-0.0050	0.3117	2.8164	
22	7.44	0.03	0.3433	0.9803	0.0909	0.0957	-0.0050	0.3146	2.8558	
23	7.89	0.01	0.3875	1.0062	-0.0267	0.0784	-0.0040	0.3090	2.5964	
24	8.32	0.01	0.3924	1.0544	0.0115	0.0399	-0.0030	0.3083	2.6866	
25	8.79	0.02	0.4315	1.0726	0.0407	0.0570	-0.0050	0.3043	2.4855	
26	9.19	0.02	0.4597	1.1211	0.0484	0.1692	-0.0040	0.3006	2.4386	
27	9.58	-0.05	0.4939	1.1562	-0.0280	0.1262	-0.0040	0.2952	2.3409	
28	10.02	0.05	0.5225	1.1852	0.1835	0.1581	-0.0040	0.2940	2.2682	
29	10.40	0.04	0.5538	1.2034	0.0211	0.1454	-0.0030	0.2906	2.1728	
30	10.84	0.04	0.6034	1.2699	0.0458	0.0595	-0.0030	0.2946	2.1046	
31	11.24	0.03	0.6401	1.3215	0.0874	0.0906	-0.0040	0.2862	2.0645	
32	11.65	0.02	0.6792	1.3458	0.0937	-0.0502	-0.0030	0.2896	1.9814	
33	11.98	0.05	0.7004	1.3411	0.0694	0.1230	-0.0030	0.2864	1.9148	
34	12.37	0.04	0.7540	1.4001	0.0803	0.0406	-0.0030	0.2821	1.8569	
35	12.72	0.05	0.7804	1.4401	0.1252	0.0887	-0.0040	0.2808	1.8454	
36	13.09	0.03	0.8243	1.4846	0.0513	0.1942	-0.0030	0.2810	1.8011	
37	13.44	0.0	0.8622	1.4826	0.0018	-0.0345	-0.0020	0.2750	1.7196	
38	13.81	0.03	0.9002	1.5174	0.0560	0.2066	-0.0030	0.2760	1.6856	
39	14.18	0.02	0.9551	1.5865	0.0236	0.2159	-0.0020	0.2727	1.6632	
40	14.55	0.02	0.9863	1.6238	-0.0885	0.1044	-0.0020	0.2736	1.6464	
41	14.94	0.01	1.0171	1.6587	-0.0426	0.1926	-0.0020	0.2664	1.6309	
42	15.28	0.02	1.0584	1.6849	-0.0035	0.2704	-0.0020	0.2620	1.5920	
43	15.63	0.04	1.1061	1.7091	-0.0208	0.3111	-0.0020	0.2558	1.5452	
44	15.95	0.02	1.1492	1.7886	-0.1272	0.2790	-0.0010	0.2566	1.5563	
45	16.31	0.02	1.1712	1.8028	-0.0454	0.2785	-0.0010	0.2518	1.5392	
46	16.64	0.01	1.2017	1.7921	-0.0840	0.3706	-0.0020	0.2407	1.4913	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 1
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST 6	PART 100	MACH 1.10	RX10-6 1.1	PHI 0.0	CONF B2WUFO	L 0.0	DEL1 OFF	DEL2 OFF	DEL3 OFF	DEL4 OFF	TRANSITION FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	17.02	0.02	1.2670	1.8937	-0.0531	0.3453	-0.0010	0.2403	1.4946		
48	17.33	0.03	1.3506	1.8936	-0.0390	0.4775	-0.0010	0.2346	1.4020		
49	17.64	0.03	1.3281	1.9431	-0.0142	0.2748	0.0	0.2386	1.4631		
50	17.97	0.02	1.3833	1.9938	-0.0744	0.4871	0.0	0.2363	1.4413		
51	18.35	0.0	1.4150	2.0655	-0.2137	0.4401	0.0010	0.2257	1.4597		
52	18.69	0.01	1.4736	2.0814	-0.0666	0.2242	0.0	0.2232	1.4125		
53	19.03	0.02	1.5168	2.1439	0.0326	0.1513	0.0	0.2208	1.4134		
54	19.35	0.01	1.5461	2.1449	-0.1205	0.4356	0.0	0.2183	1.3873		
55	19.67	0.02	1.6105	2.2597	0.0389	0.2465	0.0	0.2084	1.4031		
56	19.99	0.01	1.6483	2.2748	0.0080	0.1688	0.0	0.2065	1.3801		
57	20.33	0.0	1.7583	2.2118	-0.0180	0.1162	0.0010	0.2025	1.2579		
58	20.72	0.0	1.8731	2.2271	-0.0796	0.1874	0.0	0.1931	1.2050		
59	21.08	0.01	1.9656	2.3744	0.0024	0.1056	0.0010	0.1828	1.2080		
60	21.40	0.04	1.9394	2.3791	0.2302	0.0327	0.0	0.1787	1.2267		
61	21.76	0.01	2.1157	2.4147	0.0182	0.1575	0.0010	0.1671	1.1392		
62	22.10	0.03	2.2915	2.5441	0.0820	0.2792	0.0010	0.1555	1.1103		
63	22.41	0.0	2.3086	2.5942	0.0511	0.0315	0.0020	0.1577	1.1237		
64	22.73	0.01	2.3820	2.6484	0.1240	0.0014	0.0030	0.1536	1.1119		
65	23.04	-0.01	2.4536	2.6972	0.0157	0.0860	0.0020	0.1477	1.0993		
66	23.38	0.01	2.4992	2.7883	0.1026	0.1373	0.0020	0.1422	1.1157		
67	23.73	0.0	2.6883	2.8744	0.1385	-0.0579	0.0040	0.1332	1.0692		
68	24.07	-0.02	2.7199	2.9692	0.2037	0.0128	0.0030	0.1303	1.0916		
69	24.40	-0.01	2.8635	3.0501	0.0737	0.0288	0.0040	0.1233	1.0652		
70	24.72	0.0	2.8764	3.0891	0.0179	0.2329	0.0030	0.1214	1.0739		
71	25.02	0.0	2.9905	3.1243	0.0572	0.1759	0.0040	0.1380	1.0448		
72	25.37	0.01	3.1073	3.2868	0.0912	0.3513	0.0040	0.1108	1.0578		
73	25.67	0.05	3.1113	3.2952	0.1238	0.3016	0.0040	0.1128	1.0591		
74	26.02	0.0	3.2723	3.4528	0.1442	0.1431	0.0040	0.1066	1.0552		
75	26.32	0.0	3.3116	3.5427	0.1009	0.2487	0.0050	0.1045	1.0698		
76	26.61	0.0	3.3789	3.6155	0.1150	0.1410	0.0050	0.0985	1.0712		
77	26.92	0.01	3.5090	3.6572	0.1106	0.1941	0.0060	0.0914	1.0422		
78	27.21	0.0	3.5927	3.7300	0.0891	0.1482	0.0050	0.1183	1.0382		
79	27.54	-0.01	3.6569	3.7751	0.0752	0.2287	0.0060	0.1131	1.0323		
80	27.85	0.0	3.7393	3.8868	0.0830	0.1588	0.0070	0.0773	1.0394		
81	28.19	-0.01	3.8914	3.9048	0.0600	0.1880	0.0070	0.1029	1.0035		
82	28.47	-0.01	3.9307	3.8758	0.0757	0.1450	0.0070	0.0957	0.9860		
83	28.81	0.01	4.0208	4.0437	0.1409	0.2037	0.0070	0.0903	1.0057		
84	29.13	0.0	4.1393	4.1477	0.1024	0.1356	0.0070	0.0852	1.0020		
85	29.42	0.01	4.1448	4.1150	0.1910	0.1106	0.0070	0.0792	0.9928		
86	29.74	-0.01	4.2837	4.1794	0.0546	0.1455	0.0070	0.0766	0.9756		
87	30.08	-0.02	4.4843	4.1986	-0.0690	0.2366	0.0070	0.0680	0.9363		
88	30.37	-0.01	4.5272	4.4105	0.1728	0.0921	0.0080	0.0467	0.9742		
89	30.35	-0.01	4.5480	4.2124	0.0830	0.2188	0.0090	0.0589	0.9262		

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	DEL4	TRANSITION
6	102	0.85	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	-19.96	0.0649	-0.1048	3.3932	-6.3532	0.0130	0.3183	-1.6157		
2	0.01	-19.60	0.0724	-0.1363	3.3538	-6.3510	0.0210	0.3144	-1.8034		
3	0.01	-18.85	0.0828	-0.1439	3.2551	-6.2509	0.0160	0.3029	-1.7342		
4	0.01	-18.05	0.0919	-0.1596	3.1584	-6.0515	0.0200	0.2957	-1.7373		
5	0.01	-17.16	0.0560	-0.0814	2.9861	-5.8933	0.0120	0.2945	-1.4536		
6	0.01	-16.36	0.0619	-0.0796	2.8460	-5.7172	0.0110	0.2861	-1.2869		
7	0.0	-15.52	0.0516	-0.1532	2.6652	-5.4510	0.0110	0.2795	-2.9698		
8	0.01	-14.73	0.0369	-0.0976	2.5699	-5.3416	0.0030	0.2761	-2.6466		
9	0.01	-13.88	0.0446	-0.0844	2.4060	-5.1851	0.0130	0.2674	-1.8933		
10	0.0	-13.06	0.0612	-0.1867	2.3346	-5.0372	0.0240	0.2544	-3.0503		
11	0.0	-12.25	0.0395	-0.1333	2.1705	-4.8505	0.0240	0.2486	-3.3747		
12	0.0	-11.51	0.0602	-0.2243	2.0324	-4.7142	0.0270	0.2403	-3.7256		
13	-0.01	-10.72	0.1413	-0.5647	2.0060	-4.9162	0.0590	0.2341	-3.9973		
14	-0.01	-9.99	0.1432	-0.5244	1.9285	-4.8997	0.0620	0.2306	-3.6626		
15	0.0	-9.21	0.1052	-0.3452	1.9973	-5.4539	0.0550	0.2194	-3.2821		
16	0.0	-8.46	0.0522	-0.1721	2.0362	-5.9653	0.0370	0.2131	-3.2965		
17	0.0	-7.65	0.0633	-0.1776	2.0415	-6.2717	0.0300	0.2082	-2.8060		
18	0.0	-6.87	0.0541	-0.1427	1.9684	-6.2634	0.0200	0.2081	-2.6384		
19	0.0	-6.03	0.0432	-0.1015	1.8675	-6.0310	0.0150	0.2013	-2.3491		
20	0.0	-5.30	0.0366	-0.0742	1.7404	-5.8631	0.0170	0.2004	-2.0284		
21	0.0	-4.51	0.0375	-0.0935	1.6435	-5.6844	0.0100	0.1944	-2.4933		
22	0.0	-3.73	0.0432	-0.0995	1.5070	-5.3984	0.0080	0.1923	-2.3028		
23	0.0	-2.89	0.0416	-0.1212	1.4378	-5.1215	0.0100	0.1796	-2.9144		
24	0.0	-2.11	0.0493	-0.1300	1.2883	-4.8403	0.0120	0.1766	-2.6373		
25	0.01	-1.31	0.0497	-0.0976	1.1567	-4.6640	0.0100	0.1763	-1.9634		
26	0.0	-0.51	0.0548	-0.1317	1.1343	-4.4616	0.0140	0.1728	-2.4036		
27	0.0	0.28	0.0569	-0.1276	0.9529	-4.1627	0.0020	0.1675	-2.2436		
28	0.0	1.01	0.0436	-0.0780	0.8995	-3.9469	-0.0010	0.1646	-1.7899		
29	0.0	1.80	0.0164	-0.0360	0.7359	-3.5859	-0.0050	0.1620	-2.1927		
30	0.0	2.57	0.0233	-0.0406	0.6060	-3.2191	-0.0080	0.1583	-1.7433		
31	0.0	3.35	0.0136	-0.0230	0.4612	-2.7575	-0.0070	0.1505	-1.6941		
32	0.0	4.10	0.0125	-0.0055	0.3163	-2.3455	-0.0080	0.1463	-0.4400		
33	0.01	4.86	0.0037	0.0030	0.1284	-1.9505	-0.0030	0.1384	0.5298		
34	0.01	5.72	0.0029	0.0269	0.0282	-1.5623	0.0030	0.1319	9.2897		
35	0.01	6.52	0.0172	0.0199	-0.1229	-1.2468	0.0020	0.1329	1.1581		
36	0.01	7.33	0.0164	0.0110	-0.2460	-0.9425	0.0	0.1304	0.6732		
37	0.01	8.08	0.0221	0.0161	-0.4262	-0.6711	0.0010	0.1217	0.7267		
38	0.01	8.93	-0.0033	0.0686	-0.5658	-0.3137	0.0010	0.1158	-20.7939		
39	0.01	9.73	0.0071	0.0581	-0.6690	0.0587	0.0	0.1070	8.1775		
40	0.01	10.51	0.0040	0.0754	-0.8147	0.2447	-0.0050	0.0955	18.8500		
41	0.01	11.33	0.0048	0.0813	-0.9675	0.6736	-0.0040	0.0755	16.9333		
42	0.01	12.11	-0.0105	0.1227	-1.0719	1.1616	-0.0120	0.0533	-11.6657		
43	0.01	12.91	0.0170	0.1192	-1.3488	1.4584	-0.0160	0.0329	7.0118		
44	0.01	13.65	-0.0105	0.1477	-1.4732	1.9705	-0.0160	0.0088	-14.0667		
45	0.01	14.45	0.0033	0.1464	-1.7459	2.3402	-0.0290	-0.0089	44.3575		
46	0.01	15.21	-0.0062	0.1997	-1.8639	2.7314	-0.0270	-0.0171	-32.2065		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6 102 0.85 1.7 0.0 B2WOF13 0.0 10 0 10 0 FIXED										
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	0.02	16.01	0.0193	0.1840	-2.0046	3.0985	-0.0340	-0.0374	9.5326	
48	0.02	16.78	0.0071	0.2050	-2.1822	3.4330	-0.0310	-0.0513	28.8617	
49	0.02	17.62	0.0106	0.2211	-2.3969	3.8216	-0.0380	-0.0640	20.8642	
50	0.02	18.45	-0.0229	0.2960	-2.5707	4.0239	-0.0320	-0.0638	-12.9204	
51	0.02	19.27	0.0381	0.1466	-2.7547	4.2496	-0.0310	-0.0589	3.8493	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 102 0.85 1.7			0.0	0.2WOF13	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCFF1	YCFF1	CNF2	CM2	CB2	XCFF2	YCFF2
1	0.01	-19.96	0.9797	0.0355	0.3236	0.0363	0.3303	-0.0171	0.0058	-0.0291	-0.3379	1.7016
2	0.01	-19.60	0.9717	0.0357	0.3205	0.0368	0.3298	-0.0268	0.0089	-0.0321	-0.3304	1.1989
3	0.01	-18.85	0.9604	0.0366	0.3135	0.0381	0.3269	-0.0225	0.0114	-0.0372	-0.5070	1.6532
4	0.01	-18.05	0.9356	0.0376	0.3081	0.0402	0.3293	-0.0192	0.0074	-0.0281	-0.3831	1.4634
5	0.01	-17.16	0.9030	0.0389	0.3005	0.0431	0.3328	-0.0132	0.0068	-0.0246	-0.5117	1.8635
6	0.01	-16.36	0.8672	0.0408	0.2891	0.0470	0.3333	-0.0149	0.0044	-0.0238	-0.2972	1.5950
7	0.0	-15.52	0.8395	0.0409	0.2798	0.0487	0.3333	-0.0038	0.0038	-0.0137	-1.0072	3.5964
8	0.01	-14.73	0.8215	0.0411	0.2715	0.0501	0.3304	0.0040	0.0032	-0.0107	0.7880	-2.6668
9	0.01	-13.88	0.7809	0.0411	0.2692	0.0527	0.3447	0.0052	-0.0002	-0.0142	-0.0289	-2.7245
10	0.0	-13.06	0.7567	0.0413	0.2619	0.0546	0.3460	-0.0033	-0.0005	-0.0138	0.1592	4.1817
11	0.0	-12.25	0.7599	0.0420	0.2531	0.0552	0.3331	0.0056	-0.0012	-0.0155	-0.2144	-2.7739
12	0.0	-11.51	0.7231	0.0420	0.2515	0.0580	0.3483	0.0078	0.0	-0.0111	0.0	-1.4232
13	-0.01	-10.72	0.8084	0.0419	0.2705	0.0518	0.3346	0.0475	0.0001	0.0066	0.0016	0.1395
14	-0.01	-9.99	0.7964	0.0427	0.2672	0.0536	0.3355	0.0337	-0.0002	0.0004	-0.0067	0.0127
15	0.0	-9.21	0.8546	0.0434	0.2890	0.0508	0.3381	0.0315	0.0008	0.0025	0.0238	0.0792
16	0.0	-8.46	0.8656	0.0440	0.2917	0.0508	0.3370	0.0002	0.0005	-0.0147	2.6266	-73.6667
17	0.0	-7.65	0.8955	0.0499	0.3046	0.0557	0.3401	-0.0099	0.0	-0.0148	0.0	1.4948
18	0.0	-6.87	0.8909	0.0525	0.3057	0.0589	0.3431	-0.0102	-0.0004	-0.0131	0.0368	1.2642
19	0.0	-6.03	0.8398	0.0510	0.2911	0.0607	0.3467	-0.0213	-0.0005	-0.0157	0.0247	0.7370
20	0.0	-5.30	0.8100	0.0545	0.2819	0.0673	0.3480	-0.0145	-0.0004	-0.0161	0.0259	1.1125
21	0.0	-4.51	0.7811	0.0594	0.2736	0.0760	0.3503	-0.0182	-0.0011	-0.0140	0.0577	0.7673
22	0.0	-3.73	0.7536	0.0629	0.2642	0.0835	0.3506	-0.0120	-0.0005	-0.0122	0.0438	1.0165
23	0.0	-2.89	0.6904	0.0662	0.2522	0.0559	0.3652	-0.0197	-0.0026	-0.0142	0.1295	0.7190
24	0.0	-2.11	0.6772	0.0688	0.2406	0.1016	0.3552	-0.0110	-0.0005	-0.0096	0.0478	0.8696
25	0.01	-1.31	0.6311	0.0701	0.2325	0.1110	0.3684	-0.0095	-0.0005	-0.0089	0.0553	0.9332
26	0.0	-0.51	0.5900	0.0698	0.2224	0.1162	0.3770	-0.0115	-0.0024	-0.0136	0.2088	1.1854
27	0.0	0.28	0.5407	0.0671	0.2061	0.1240	0.3811	-0.0058	-0.0005	-0.0102	0.0906	1.7642
28	0.0	1.01	0.4865	0.0635	0.1892	0.1306	0.3890	-0.0141	-0.0007	-0.0105	0.0479	0.7446
29	0.0	1.80	0.4163	0.0576	0.1685	0.1383	0.4048	-0.0159	-0.0021	-0.0162	0.1322	1.0187
30	0.0	2.57	0.3553	0.0518	0.1449	0.1458	0.4078	-0.0151	-0.0005	-0.0133	0.0348	0.8829
31	0.0	3.35	0.2807	0.0433	0.1179	0.1541	0.4202	-0.0149	-0.0005	-0.0143	0.0353	0.9574
32	0.0	4.10	0.2059	0.0333	0.0501	0.1619	0.4377	-0.0213	-0.0011	-0.0154	0.0528	0.7229
33	0.01	4.86	0.1481	0.0253	0.0677	0.1709	0.4569	-0.0137	0.0	-0.0129	0.0	0.9391
34	0.01	5.72	0.0846	0.0162	0.0471	0.1916	0.5566	-0.0407	-0.0005	-0.0117	0.0129	0.2865
35	0.01	6.52	0.0336	0.0081	0.0317	0.2412	0.9433	-0.0122	0.0002	-0.0121	-0.0123	0.9890
36	0.01	7.33	-0.0070	-0.0002	0.0095	0.0322	-1.3525	-0.0066	0.0015	-0.0081	-0.2274	1.2272
37	0.01	8.08	-0.0724	-0.0101	-0.0037	0.1389	0.0514	-0.0047	0.0013	-0.0087	-0.2714	1.8439
38	0.01	8.93	-0.1231	-0.0201	-0.0241	0.1635	0.1958	-0.0089	0.0002	-0.0120	-0.0253	1.3445
39	0.01	9.73	-0.1843	-0.0302	-0.0386	0.1638	0.2094	-0.0044	0.0006	-0.0097	-0.1364	2.1969
40	0.01	10.51	-0.2495	-0.0398	-0.0541	0.1595	0.2169	0.0004	0.0014	-0.0093	3.3771	-23.1668
41	0.01	11.33	-0.3042	-0.0521	-0.0772	0.1713	0.2539	-0.0044	0.0006	-0.0097	-0.1364	2.1969
42	0.01	12.11	-0.3595	-0.0632	-0.1005	0.1759	0.2795	-0.0018	-0.0002	-0.0134	0.1251	7.4443
43	0.01	12.91	-0.4332	-0.0731	-0.1208	0.1686	0.2789	0.0059	0.0008	-0.0105	0.1272	-1.7854
44	0.01	13.65	-0.5056	-0.0791	-0.1444	0.1565	0.2855	0.0021	0.0011	-0.0092	0.5003	-4.3811
45	0.01	14.45	-0.5785	-0.0845	-0.1682	0.1461	0.2907	0.0090	0.0011	-0.0097	0.1251	-1.0779
46	0.01	15.21	-0.6240	-0.0858	-0.1841	0.1375	0.2951	0.0059	0.0009	-0.0105	0.1526	-1.7854

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
 6 102 0.85 1.7 0.0 82WOF13 0.0 10 0 10 0 FIXED

PCINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	16.01	-0.6843	-0.0865	-0.2014	0.1264	0.2943	0.0121	0.0014	-0.0085	0.1116	-0.6998
48	0.02	16.78	-0.7116	-0.0864	-0.2170	0.1215	0.3050	0.0121	0.0010	-0.0085	0.0806	-0.6998
49	0.02	17.62	-0.7502	-0.0846	-0.2332	0.1128	0.3108	0.0108	0.0014	-0.0099	0.1320	-0.9168
50	0.02	18.45	-0.8147	-0.0813	-0.2448	0.0998	0.3004	0.0062	0.0008	-0.0118	0.1210	-1.9087
51	0.02	19.27	-0.8366	-0.0746	-0.2488	0.0891	0.2975	0.0111	0.0010	-0.0111	0.0879	-1.0001

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	XX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	102.0	0.85	1.7	0.0	82WOF13	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	C03	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	0.01	-19.96	0.9390	0.0302	0.3302	0.0321	0.3516	0.0017	-0.0016	-0.0003	-0.9270	-0.1962
2	0.01	-19.60	0.9372	0.0298	0.3337	0.0318	0.3561	0.0007	-0.0007	-0.0002	-0.9649	-0.2382
3	0.01	-18.65	0.9300	0.0306	0.3224	0.0329	0.3472	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
4	0.01	-18.05	0.9057	0.0318	0.3126	0.0351	0.3451	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
5	0.01	-17.16	0.8874	0.0329	0.3061	0.0371	0.3449	0.0019	-0.0018	-0.0004	-0.9480	-0.1931
6	0.01	-16.36	0.8630	0.0329	0.2968	0.0381	0.3439	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
7	0.0	-15.52	0.8334	0.0349	0.2823	0.0419	0.3367	-0.0001	0.0002	-0.0000	-1.5009	0.3332
8	0.01	-14.73	0.7970	0.0357	0.2739	0.0448	0.3436	0.0024	-0.0022	-0.0005	-0.9068	-0.2085
9	0.01	-13.88	0.7625	0.0388	0.2593	0.0496	0.3314	0.0017	-0.0016	-0.0003	-0.9270	-0.1962
10	0.0	-13.06	0.7341	0.0392	0.2535	0.0534	0.3453	-0.0009	0.0008	0.0002	-0.9172	-0.2223
11	0.0	-12.25	0.7121	0.0403	0.2407	0.0566	0.3380	0.0012	-0.0011	-0.0003	-0.9381	-0.2501
12	0.0	-11.51	0.6934	0.0401	0.2323	0.0578	0.3351	0.0006	-0.0005	-0.0001	-0.8755	-0.1668
13	-0.01	-10.72	0.6677	0.0411	0.2203	0.0615	0.3299	-0.0021	0.0020	0.0004	-0.9291	-0.1906
14	-0.01	-9.99	0.6587	0.0402	0.2214	0.0610	0.3361	-0.0008	0.0008	0.0001	-0.9381	-0.1668
15	0.0	-9.21	0.7302	0.0405	0.2418	0.0554	0.3312	-0.0006	0.0005	0.0001	-0.8755	-0.1668
16	0.0	-8.46	0.8372	0.0411	0.2808	0.0492	0.3354	-0.0016	0.0015	0.0003	-0.9381	-0.1668
17	0.0	-7.65	0.8926	0.0439	0.3002	0.0492	0.3364	-0.0016	0.0015	0.0003	-0.9381	-0.1668
18	0.0	-6.87	0.8993	0.0458	0.3033	0.0509	0.3372	-0.0024	0.0022	0.0005	-0.9068	-0.2065
19	0.0	-6.03	0.8707	0.0449	0.2977	0.0516	0.3419	-0.0025	0.0023	0.0006	-0.9006	-0.2268
20	0.0	-5.30	0.8460	0.0464	0.2840	0.0549	0.3357	-0.0028	0.0026	0.0006	-0.9381	-0.2025
21	0.0	-4.51	0.8265	0.0512	0.2797	0.0620	0.3384	-0.0042	0.0038	0.0009	-0.9113	-0.2144
22	0.0	-3.73	0.7846	0.0554	0.2729	0.0706	0.3478	-0.0036	0.0033	0.0007	-0.9172	-0.1946
23	0.0	-2.89	0.7626	0.0580	0.2560	0.0761	0.3356	-0.0036	0.0033	0.0007	-0.9172	-0.1946
24	0.0	-2.11	0.7051	0.0593	0.2458	0.0841	0.3485	-0.0039	0.0036	0.0008	-0.9237	-0.2052
25	0.01	-1.31	0.6873	0.0619	0.2322	0.0900	0.3379	-0.0039	0.0036	0.0008	-0.9237	-0.2052
26	0.0	-0.51	0.6504	0.0626	0.2235	0.0963	0.3437	-0.0054	0.0050	0.0011	-0.9172	-0.2038
27	0.0	0.28	0.6117	0.0634	0.2172	0.1036	0.3551	-0.0058	0.0053	0.0012	-0.9187	-0.2013
28	0.0	1.01	0.5784	0.0613	0.2061	0.1059	0.3264	-0.0054	0.0050	0.0011	-0.9172	-0.2038
29	0.0	1.80	0.5083	0.0573	0.1876	0.1127	0.3690	-0.0049	0.0045	0.0010	-0.9189	-0.1974
30	0.0	2.57	0.4551	0.0528	0.1670	0.1160	0.3668	-0.0042	0.0039	0.0008	-0.9291	-0.1906
31	0.0	3.35	0.3714	0.0448	0.1381	0.1207	0.3717	-0.0039	0.0036	0.0008	-0.9237	-0.2052
32	0.0	4.10	0.3028	0.0365	0.1125	0.1205	0.3715	-0.0036	0.0033	0.0007	-0.9172	-0.1946
33	0.01	4.86	0.2515	0.0284	0.0866	0.1128	0.3444	-0.0036	0.0034	0.0007	-0.9381	-0.1946
34	0.01	5.72	0.1601	0.0185	0.0634	0.1154	0.3963	-0.0028	0.0026	0.0006	-0.9381	-0.2025
35	0.01	6.52	0.1182	0.0118	0.0447	0.0998	0.3761	-0.0021	0.0020	0.0004	-0.9291	-0.1906
36	0.01	7.33	0.0672	0.0035	0.0260	0.0525	0.3668	-0.0024	0.0022	0.0005	-0.9068	-0.2085
37	0.01	8.08	0.0072	-0.0045	0.0083	-0.0075	1.1527	-0.0017	0.0016	0.0003	-0.9270	-0.1962
38	0.01	8.93	-0.0371	-0.0128	-0.0076	0.3459	0.2038	-0.0009	0.0008	0.0002	-0.9172	-0.2223
39	0.01	9.73	-0.0940	-0.0227	-0.0252	0.2414	0.2683	0.0001	-0.0002	0.0000	-1.5009	0.3332
40	0.01	10.51	-0.1466	-0.0301	-0.0417	0.2054	0.2848	0.0011	-0.0011	-0.0002	-0.9551	-0.2122
41	0.01	11.33	-0.1989	-0.0391	-0.0590	0.1967	0.2965	0.0027	-0.0025	-0.0006	-0.9172	-0.2223
42	0.01	12.11	-0.2537	-0.0499	-0.0818	0.1965	0.3226	0.0046	-0.0042	-0.0011	-0.9136	-0.2320
43	0.01	12.91	-0.3235	-0.0590	-0.0998	0.1825	0.3085	0.0046	-0.0042	-0.0011	-0.9136	-0.2320
44	0.01	13.65	-0.3914	-0.0666	-0.1204	0.1702	0.3077	0.0065	-0.0060	-0.0014	-0.9237	-0.2206
45	0.01	14.43	-0.4556	-0.0706	-0.1483	0.1549	0.3253	0.0082	-0.0076	-0.0018	-0.9244	-0.2156
46	0.01	15.21	-0.5250	-0.0720	-0.1621	0.1372	0.3088	0.0088	-0.0081	-0.0020	-0.9210	-0.2236

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 102 0.85 1.7 0.0 82WOF13 0.0 10 0 10 0 FIXED

PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	16.01	-0.5655	-0.0713	-0.1847	0.1261	0.3267	0.0085	-0.0078	-0.0019	-0.9182	-0.2197
48	0.02	16.78	-0.6135	-0.0705	-0.1977	0.1149	0.3223	0.0082	-0.0076	-0.0018	-0.9244	-0.2156
49	0.02	17.62	-0.6587	-0.0676	-0.2122	0.1026	0.3221	0.0080	-0.0074	-0.0017	-0.9287	-0.2168
50	0.02	18.45	-0.7076	-0.0645	-0.2238	0.0912	0.3162	0.0065	-0.0060	-0.0014	-0.9237	-0.2206
51	0.02	19.27	-0.7452	-0.0589	-0.2421	0.0790	0.3249	0.0092	-0.0085	-0.0020	-0.9218	-0.2211

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX	10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	103	0.92	1.7	0.0	B2WOF13	0.6	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.0	-19.92	0.0951	-0.2691	3.6876	-7.2204	0.0060	0.3363	-2.8301		
2	0.01	-19.54	0.0995	-0.1773	3.7272	-7.2468	0.0040	0.3264	-1.7819		
3	0.0	-18.75	0.1100	-0.2590	3.5310	-6.9792	0.0130	0.3141	-2.3545		
4	0.0	-17.93	0.0497	-0.1806	3.3318	-6.7202	0.0120	0.3108	-2.5908		
5	0.01	-17.04	0.0636	-0.1120	3.2056	-6.5595	0.0	0.3068	-1.7616		
6	0.0	-16.24	0.0639	-0.1384	3.0090	-6.2553	0.0090	0.3075	-2.1668		
7	0.0	-15.41	0.0481	-0.1573	2.8822	-6.1858	0.0070	0.3033	-3.2711		
8	0.0	-14.61	0.0359	-0.1288	2.7193	-5.9748	0.0050	0.3063	-3.2296		
9	0.0	-13.78	0.0506	-0.1838	2.6649	-5.9275	0.0110	0.3001	-3.6332		
10	0.0	-12.95	0.0495	-0.2013	2.4661	-5.7632	0.0230	0.2961	-4.0667		
11	-0.01	-12.16	0.0764	-0.3279	2.3952	-5.7329	0.0340	0.2967	-4.2927		
12	-0.01	-11.41	0.1182	-0.4384	2.2977	-5.8514	0.0570	0.3021	-3.7096		
13	-0.02	-10.65	0.2328	-0.9638	2.3713	-6.3794	0.1460	0.2826	-4.1405		
14	-0.03	-9.93	0.2647	-1.0864	2.2820	-6.4764	0.1730	0.2897	-4.1049		
15	0.0	-9.19	0.0694	-0.2081	2.4163	-7.4573	0.0250	0.2789	-2.9994		
16	0.0	-8.39	0.0684	-0.2267	2.3490	-7.4760	0.0260	0.2731	-3.3152		
17	0.0	-7.62	0.0465	-0.1811	2.2545	-7.4167	0.0200	0.2713	-3.8946		
18	0.0	-6.78	0.0373	-0.1142	2.1660	-7.1429	0.0180	0.2629	-3.0622		
19	0.0	-6.01	0.0498	-0.1517	2.0474	-6.9449	0.0160	0.2657	-3.0466		
20	0.0	-5.22	0.0357	-0.1230	1.8993	-6.5884	0.0070	0.2561	-3.4448		
21	0.0	-4.47	0.0701	-0.2051	1.7170	-6.2003	0.0100	0.2456	-2.9264		
22	0.0	-3.68	0.0529	-0.1540	1.6569	-5.9202	0.0080	0.2342	-2.9123		
23	0.0	-2.85	0.0477	-0.1408	1.4933	-5.6412	0.0100	0.2375	-2.9514		
24	0.0	-2.07	0.0563	-0.1448	1.3697	-5.4032	0.0040	0.2384	-2.5723		
25	0.0	-1.26	0.0479	-0.1260	1.3054	-5.0592	-0.0030	0.2371	-2.6317		
26	0.0	-0.45	0.0490	-0.1436	1.2115	-4.8247	-0.0090	0.2461	-2.9306		
27	0.0	0.33	0.0252	-0.0643	1.0364	-4.3395	-0.0130	0.2284	-2.5508		
28	0.0	1.07	0.0313	-0.0868	0.8404	-3.9002	-0.0180	0.2230	-2.7738		
29	0.0	1.86	0.0362	-0.0687	0.7132	-3.4862	-0.0150	0.2151	-1.8972		
30	0.0	2.62	0.0156	-0.0178	0.4542	-3.0776	-0.0080	0.2089	-1.1436		
31	0.0	3.41	0.0141	-0.0117	0.4049	-2.6627	-0.0070	0.2014	-0.8326		
32	0.0	4.16	0.0144	-0.0282	0.2857	-2.2657	-0.0020	0.1976	-1.9556		
33	0.0	4.98	0.0087	-0.0042	0.0858	-1.8149	0.0030	0.1921	-0.4805		
34	0.01	5.77	0.0113	0.0052	-0.0241	-1.4861	0.0010	0.1897	0.4564		
35	0.01	6.61	0.0181	-0.0163	-0.2095	-1.1016	0.0060	0.1821	-0.9028		
36	0.01	7.37	0.0343	-0.0020	-0.2535	-0.8694	0.0040	0.1806	-0.0589		
37	0.01	8.21	0.0213	0.0242	-0.4476	-0.5032	0.0040	0.1743	1.1352		
38	0.01	9.01	0.0024	0.0886	-0.6163	-0.1210	0.0	0.1615	36.9333		
39	0.01	9.84	-0.0032	0.0755	-0.7685	0.3220	-0.0050	0.1452	-23.5675		
40	0.01	10.63	0.0123	0.0648	-0.8951	0.6862	-0.0050	0.1320	5.2667		
41	0.01	11.45	0.0013	0.0912	-1.1094	1.0322	-0.0100	0.1059	70.1384		
42	0.01	12.22	0.0082	0.1015	-1.2769	1.4687	-0.0120	0.0893	12.3805		
43	0.01	12.98	-0.0046	0.1664	-1.4845	1.9513	-0.0100	0.0632	-36.1826		
44	0.02	13.77	0.0060	0.1606	-1.6660	2.4074	-0.0150	0.0439	26.7667		
45	0.01	14.53	0.0025	0.1395	-1.8342	2.8908	-0.0350	0.0272	55.8000		
46	0.01	15.30	-0.0004	0.1545	-2.0876	3.4216	-0.0350	0.0012	-386.4001		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 103 0.92 1.7 0.0 B2H0F13 0.0 10 0 10 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	16.09	-0.0016	0.2262	-2.2434	3.8587	-0.0340	-0.0209	-141.4000
48	0.02	16.90	0.0291	0.1812	-2.4552	4.2691	-0.0390	-0.0439	6.2289
49	0.02	17.71	-0.0263	0.3238	-2.6342	4.6047	-0.0010	-0.0607	-12.3125
50	0.03	18.58	-0.0120	0.3798	-2.8199	4.7098	-0.0040	-0.0673	-31.6500
51	0.02	19.35	-0.0413	0.3188	-2.9891	4.8917	-0.0140	-0.0752	-7.7196
52	0.02	20.15	-0.0395	0.2963	-3.0893	5.0219	-0.0120	-0.0806	-7.5013

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 103 0.92 1.7			0.0	82W0F13	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.0	-19.92	1.0496	0.0253	0.3653	0.0241	0.3481	0.0107	0.0080	-0.0219	0.7435	-2.0500
2	0.01	-19.54	1.0495	0.0249	0.3654	0.0238	0.3482	0.0099	0.0070	-0.0181	0.7050	-1.8284
3	0.0	-18.75	1.0004	0.0273	0.3535	0.0273	0.3533	-0.0028	0.0114	-0.0376	-4.0740	13.4046
4	0.0	-17.93	0.9816	0.0281	0.3475	0.0286	0.3540	-0.0014	0.0083	-0.0290	-5.8965	20.6904
5	0.01	-17.04	0.9609	0.0300	0.3346	0.0312	0.3482	0.0152	0.0022	-0.0086	0.1432	-0.4365
6	0.0	-16.24	0.9108	0.0312	0.3225	0.0342	0.3541	0.0089	0.0017	-0.0183	0.1855	-2.0600
7	0.0	-15.41	0.8907	0.0317	0.3161	0.0356	0.3545	0.0179	0.0010	-0.0114	0.0545	-0.6389
8	0.0	-14.61	0.8523	0.0330	0.3096	0.0388	0.3633	0.0184	0.0024	-0.0141	0.1305	-0.7646
9	0.0	-13.78	0.8478	0.0318	0.3065	0.0376	0.3620	0.0194	0.0024	-0.0117	0.1238	-0.6049
10	0.0	-12.95	0.8212	0.0326	0.3005	0.0397	0.3659	0.0180	0.0002	-0.0113	0.0083	-0.6279
11	-0.01	-12.16	0.8311	0.0325	0.3037	0.0391	0.3655	0.0222	0.0009	-0.0105	0.0406	-0.4731
12	-0.01	-11.41	0.9041	0.0316	0.3482	0.0350	0.3630	0.0495	-0.0002	0.0038	-0.0045	0.0766
13	-0.02	-10.65	1.0422	0.0300	0.3818	0.0288	0.3663	0.0921	-0.0003	0.0172	-0.0033	0.1865
14	-0.03	-9.93	1.0744	0.0314	0.3543	0.0292	0.3670	0.0843	-0.0022	0.0181	-0.0258	0.2146
15	0.0	-9.19	1.0057	0.0351	0.3682	0.0349	0.3661	0.0031	0.0002	-0.0191	0.0484	-6.1507
16	0.0	-8.39	1.0125	0.0392	0.3728	0.0387	0.3682	0.0028	-0.0008	-0.0175	-0.2680	-6.2382
17	0.0	-7.62	1.0033	0.0433	0.3643	0.0432	0.3631	-0.0067	-0.0007	-0.0217	0.1008	3.2437
18	0.0	-6.78	0.9653	0.0478	0.3584	0.0495	0.3713	-0.0023	-0.0009	-0.0212	0.3915	9.2028
19	0.0	-6.01	0.9328	0.0534	0.3495	0.0572	0.3752	-0.0049	-0.0005	-0.0168	0.1072	3.4353
20	0.0	-5.22	0.8826	0.0580	0.3345	0.0658	0.3790	-0.0020	-0.0006	-0.0161	0.3002	8.0332
21	0.0	-4.47	0.8343	0.0619	0.3174	0.0743	0.3805	0.0011	-0.0012	-0.0162	-1.0916	-14.7577
22	0.0	-3.68	0.8055	0.0661	0.3061	0.0820	0.3800	0.0026	-0.0023	-0.0159	-0.8659	-6.1283
23	0.0	-2.85	0.7625	0.0704	0.2970	0.0924	0.3695	0.0048	-0.0013	-0.0129	-0.2658	-2.6876
24	0.0	-2.07	0.7134	0.0730	0.2883	0.1023	0.4042	0.0070	-0.0023	-0.0154	-0.3216	-2.1954
25	0.0	-1.26	0.6650	0.0726	0.2746	0.1092	0.4130	0.0037	-0.0017	-0.0142	-0.4665	-3.8289
26	0.0	-0.45	0.6052	0.0695	0.2564	0.1149	0.4236	0.0070	-0.0021	-0.0154	-0.3002	-2.1954
27	0.0	0.33	0.5236	0.0665	0.2292	0.1271	0.4377	-0.0026	-0.0029	-0.0189	1.1257	7.2563
28	0.0	1.07	0.4386	0.0622	0.2014	0.1419	0.4591	0.0029	-0.0014	-0.0174	-0.4917	-6.0116
29	0.0	1.86	0.3623	0.0572	0.1722	0.1579	0.4752	0.0013	-0.0008	-0.0173	-0.6350	-13.2822
30	0.0	2.62	0.2917	0.0481	0.1445	0.1650	0.4955	-0.0029	-0.0012	-0.0184	0.4141	6.3332
31	0.0	3.41	0.2198	0.0390	0.1224	0.1773	0.5567	0.0026	-0.0003	-0.0165	-0.1155	-6.3591
32	0.0	4.16	0.1645	0.0302	0.0981	0.1835	0.5966	-0.0018	-0.0006	-0.0171	0.3335	9.4999
33	0.0	4.98	0.0895	0.0195	0.0714	0.2180	0.7969	0.0020	-0.0004	-0.0145	0.1876	-7.2668
34	0.01	5.77	0.0324	0.0104	0.0530	0.3220	1.6357	0.0012	-0.0002	-0.0172	-0.1251	-14.3334
35	0.01	6.61	-0.0085	-0.0001	0.0322	0.0088	-3.7844	0.0046	0.0017	-0.0136	0.3752	-2.9494
36	0.01	7.37	-0.0617	-0.0090	0.0168	0.1460	-0.2729	0.0147	0.0025	-0.0119	0.1685	-0.8096
37	0.01	8.21	-0.1229	-0.0195	-0.0031	0.1589	0.0254	0.0068	0.0009	-0.0158	0.1324	-2.3285
38	0.01	9.01	-0.1805	-0.0303	-0.0214	0.1681	0.1187	0.0101	0.0009	-0.0169	0.0892	-1.6767
39	0.01	9.84	-0.2573	-0.0442	-0.0453	0.1716	0.1761	0.0117	0.0008	-0.0172	0.0641	-1.4702
40	0.01	10.63	-0.3117	-0.0540	-0.0604	0.1732	0.1939	0.0113	0.0013	-0.0159	0.1129	-1.4101
41	0.01	11.45	-0.3885	-0.0686	-0.0843	0.1765	0.2171	0.0117	0.0011	-0.0174	0.0898	-1.4873
42	0.01	12.22	-0.4367	-0.0787	-0.1094	0.1802	0.2505	0.0194	0.0027	-0.0124	0.1393	-0.6410
43	0.01	12.98	-0.5182	-0.0891	-0.1251	0.1719	0.2492	0.0159	0.0021	-0.0167	0.1322	-1.0504
44	0.02	13.77	-0.5839	-0.0965	-0.1535	0.1652	0.2630	0.0170	0.0025	-0.0149	0.1457	-0.8785
45	0.01	14.53	-0.6541	-0.1014	-0.1860	0.1550	0.2844	0.0251	0.0041	-0.0113	0.1615	-0.4516
46	0.01	15.30	-0.7384	-0.1044	-0.2115	0.1414	0.2865	0.0260	0.0034	-0.0147	0.1299	-0.5668

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX 10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 103 0.92 1.7 0.0 82WOF13 0.0 10 0 10 0 FIXED												
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	16.09	-0.7985	-0.1059	-0.2399	0.1326	0.3004	0.0215	0.0027	-0.0146	0.1257	-0.6807
48	0.02	16.90	-0.8699	-0.1060	-0.2574	0.1219	0.2959	0.0261	0.0026	-0.0144	0.0978	-0.5518
49	0.02	17.71	-0.8803	-0.1017	-0.2534	0.1155	0.2879	0.0297	0.0022	-0.0102	0.0733	-0.3436
50	0.03	18.58	-0.9018	-0.0923	-0.2587	0.1023	0.2868	0.0295	0.0018	-0.0154	0.0611	-0.5210
51	0.02	19.35	-0.9428	-0.0863	-0.2663	0.0915	0.2825	0.0290	0.0019	-0.0129	0.0647	-0.4461
52	0.02	20.15	-0.9423	-0.0752	-0.2621	0.0798	0.2781	0.0313	0.0023	-0.0099	0.0719	-0.3153

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI CONF		L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 103 0.92 1.7			0.0 B2WOF13		0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.0	-19.92	1.0616	0.0236	0.3665	0.0222	0.3453	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
2	0.01	-19.54	1.0620	0.0237	0.3658	0.0223	0.3444	0.0029	-0.0027	-0.0006	-0.9316	-0.2185
3	0.0	-18.75	1.0328	0.0250	0.3539	0.0242	0.3427	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
4	0.0	-17.93	1.0110	0.0272	0.3434	0.0269	0.3396	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
5	0.01	-17.04	0.9778	0.0286	0.3319	0.0293	0.3395	0.0028	-0.0026	-0.0006	-0.9381	-0.2025
6	0.0	-16.24	0.9450	0.0300	0.3179	0.0317	0.3364	0.0014	-0.0013	-0.0003	-0.9113	-0.2382
7	0.0	-15.41	0.9202	0.0315	0.3102	0.0342	0.3371	0.0008	-0.0008	-0.0001	-0.9381	-0.1668
8	0.0	-14.61	0.9012	0.0324	0.3017	0.0360	0.3348	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
9	0.0	-13.78	0.8802	0.0342	0.2888	0.0389	0.3281	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
10	0.0	-12.95	0.8552	0.0359	0.2774	0.0420	0.3243	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
11	-0.01	-12.16	0.8319	0.0358	0.2676	0.0431	0.3217	-0.0001	0.0002	-0.0000	-1.5009	0.3332
12	-0.01	-11.41	0.8054	0.0362	0.2595	0.0449	0.3222	-0.0020	0.0018	0.0004	-0.9006	-0.2168
13	-0.02	-10.65	0.7749	0.0370	0.2475	0.0475	0.3178	0.0001	-0.0002	0.0000	-1.5009	0.3332
14	-0.03	-9.93	0.7626	0.0369	0.2411	0.0484	0.3162	-0.0022	0.0020	0.0005	-0.9210	-0.2122
15	0.0	-9.19	1.0785	0.0330	0.3608	0.0336	0.3345	-0.0021	0.0020	0.0004	-0.9291	-0.1906
16	0.0	-8.39	1.0663	0.0351	0.3610	0.0329	0.3386	-0.0019	0.0018	0.0004	-0.9480	-0.1931
17	0.0	-7.62	1.0774	0.0391	0.3623	0.0363	0.3363	-0.0015	0.0014	0.0003	-0.9006	-0.2001
18	0.0	-6.78	1.0465	0.0438	0.3476	0.0418	0.3322	-0.0005	0.0005	0.0001	-1.0507	-0.2668
19	0.0	-6.01	1.0337	0.0493	0.3443	0.0477	0.3331	-0.0025	0.0023	0.0005	-0.9306	-0.1868
20	0.0	-5.22	0.9969	0.0541	0.3285	0.0542	0.3295	-0.0015	0.0014	0.0003	-0.9006	-0.2001
21	0.0	-4.47	0.9623	0.0570	0.3118	0.0592	0.3240	-0.0044	0.0041	0.0008	-0.9210	-0.1895
22	0.0	-3.68	0.9204	0.0611	0.2961	0.0664	0.3217	-0.0019	0.0018	0.0004	-0.9480	-0.1931
23	0.0	-2.85	0.8755	0.0657	0.2893	0.0750	0.3305	-0.0026	0.0024	0.0005	-0.9237	-0.2052
24	0.0	-2.07	0.8442	0.0695	0.2845	0.0824	0.3370	-0.0035	0.0032	0.0006	-0.9220	-0.1811
25	0.0	-1.26	0.8084	0.0692	0.2714	0.0856	0.3357	-0.0025	0.0023	0.0005	-0.9306	-0.1868
26	0.0	-0.45	0.7645	0.0668	0.2587	0.0874	0.3383	-0.0039	0.0036	0.0008	-0.9237	-0.2052
27	0.0	0.33	0.6965	0.0637	0.2395	0.0914	0.3438	-0.0041	0.0038	0.0008	-0.9335	-0.2034
28	0.0	1.07	0.6316	0.0602	0.2147	0.0953	0.3399	-0.0045	0.0042	0.0009	-0.9339	-0.2001
29	0.0	1.86	0.5579	0.0578	0.1888	0.1036	0.3384	-0.0059	0.0054	0.0012	-0.9158	-0.2092
30	0.0	2.62	0.4708	0.0505	0.1552	0.1073	0.3296	-0.0044	0.0041	0.0008	-0.9210	-0.1895
31	0.0	3.41	0.3927	0.0431	0.1275	0.1097	0.3246	-0.0033	0.0030	0.0007	-0.9097	-0.2122
32	0.0	4.16	0.3171	0.0356	0.1024	0.1123	0.3228	-0.0039	0.0035	0.0008	-0.9044	-0.2052
33	0.0	4.98	0.2466	0.0270	0.0746	0.1096	0.3024	-0.0025	0.0023	0.0005	-0.9306	-0.1868
34	0.01	5.77	0.1791	0.0199	0.0555	0.1111	0.3120	-0.0009	0.0008	0.0002	-0.9172	-0.2223
35	0.01	6.61	0.1323	0.0098	0.0327	0.0738	0.2470	-0.0001	0.0002	-0.0000	-1.5009	0.3332
36	0.01	7.37	0.0823	0.0002	0.0157	0.0018	0.1911	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
37	0.01	8.21	0.0332	-0.0095	-0.0028	-0.2671	-0.0855	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
38	0.01	9.01	-0.0338	-0.0180	-0.0161	0.5329	0.4752	0.0024	-0.0023	-0.0005	-0.9381	-0.2085
39	0.01	9.84	-0.0850	-0.0279	-0.0389	0.3284	0.4579	0.0024	-0.0023	-0.0005	-0.9381	-0.2085
40	0.01	10.63	-0.1467	-0.0366	-0.0557	0.2498	0.3796	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
41	0.01	11.45	-0.2073	-0.0474	-0.0752	0.2205	0.3627	0.0004	-0.0007	-0.0018	-0.9202	-0.2144
42	0.01	12.22	-0.2913	-0.0592	-0.0945	0.2034	0.3433	0.0009	-0.0008	-0.0019	-0.9191	-0.2173
43	0.01	12.98	-0.3478	-0.0674	-0.1211	0.1939	0.3482	0.0031	-0.0021	-0.0028	-0.9223	-0.2164
44	0.02	13.77	-0.4292	-0.0734	-0.1456	0.1709	0.3393	0.0144	-0.0134	-0.0031	-0.9277	-0.2154
45	0.01	14.53	-0.4885	-0.0779	-0.1666	0.1596	0.3410	0.0149	-0.0136	-0.0032	-0.9268	-0.2171
46	0.01	15.30	-0.5597	-0.0809	-0.1943	0.1446	0.3472	0.0192	-0.0140	-0.0033	-0.9233	-0.2194

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 103 0.92 1.7				0.0	B2WOF13	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	16.09	-0.6300	-0.0826	-0.2237	0.1311	0.3551	0.0168	-0.0155	-0.0037	-0.9202	-0.2204
48	0.02	16.90	-0.6991	-0.0833	-0.2430	0.1191	0.3477	0.0148	-0.0137	-0.0033	-0.9229	-0.2208
49	0.02	17.71	-0.7540	-0.0825	-0.2669	0.1094	0.3539	0.0142	-0.0131	-0.0031	-0.9249	-0.2161
50	0.03	18.58	-0.7896	-0.0805	-0.2636	0.1019	0.3338	0.0142	-0.0131	-0.0031	-0.9249	-0.2161
51	0.02	19.35	-0.8140	-0.0700	-0.2696	0.0860	0.3311	0.0131	-0.0121	-0.0028	-0.9223	-0.2164
52	0.02	20.15	-0.8140	-0.0601	-0.2736	0.0738	0.3360	0.0146	-0.0135	-0.0031	-0.9252	-0.2147

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		104		0.97		1.7	0.0	82MOF13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP					
1	0.0	-19.83	0.0607	-0.2200	3.8571	-7.5706	-0.0100	0.3779	-2.7259					
2	0.0	-19.67	0.0757	-0.2702	3.8433	-7.5643	-0.0070	0.3868	-3.5797					
3	0.0	-18.84	0.0569	-0.1866	3.7469	-7.5744	-0.0090	0.3863	-3.2805					
4	0.0	-18.06	0.0651	-0.1431	3.6920	-7.6105	-0.0020	0.3912	-2.9668					
5	0.0	-17.17	0.0651	-0.1511	3.5196	-7.5811	-0.0020	0.4022	-2.3217					
6	0.0	-16.38	0.0707	-0.2779	3.3907	-7.5286	0.0150	0.4973	-3.9318					
7	-0.03	-15.57	0.2311	-0.9854	3.3827	-8.2633	0.1630	0.3807	-4.2646					
8	-0.03	-14.80	0.2460	-1.0513	3.3043	-8.2855	0.1770	0.3865	-4.2740					
9	-0.03	-13.95	0.2739	-1.1393	3.1582	-8.2200	0.1980	0.3849	-4.1601					
10	-0.03	-13.14	0.2204	-0.9254	3.1130	-8.4966	0.1720	0.3858	-4.1995					
11	0.0	-12.37	0.0700	-0.2840	3.2026	-9.3910	0.0270	0.3791	-4.0571					
12	-0.01	-11.63	0.0467	-0.2423	3.1009	-9.3086	0.0280	0.3652	-5.1901					
13	0.0	-10.84	0.0445	-0.1893	2.9781	-9.1767	0.0280	0.3675	-4.2539					
14	0.0	-10.10	0.0724	-0.2443	2.8873	-9.0136	0.0280	0.3669	-3.3751					
15	0.0	-9.32	0.0573	-0.1982	2.7614	-8.8284	0.0240	0.3588	-3.4593					
16	0.0	-8.56	0.0449	-0.1878	2.6050	-8.6223	0.0200	0.3599	-4.1840					
17	0.0	-7.79	0.0478	-0.2159	2.5069	-8.3780	0.0150	0.3674	-4.5172					
18	0.0	-6.96	0.0595	-0.1753	2.3887	-8.1355	0.0070	0.3703	-2.9462					
19	0.0	-6.16	0.0450	-0.1930	2.2407	-7.8234	0.0250	0.3460	-4.2889					
20	0.0	-5.37	0.0589	-0.2164	2.0959	-7.4857	0.0340	0.3130	-3.6750					
21	0.0	-4.62	0.0603	-0.2144	2.0117	-7.2259	0.0200	0.2887	-3.5559					
22	0.0	-3.81	0.0674	-0.1983	1.8453	-6.8728	0.0100	0.2796	-2.9430					
23	0.0	-3.02	0.0519	-0.1516	1.7234	-6.5462	0.0	0.2871	-2.9222					
24	0.0	-2.18	0.0366	-0.0992	1.5587	-6.1227	0.0020	0.2851	-2.7115					
25	0.0	-1.39	0.0617	-0.1504	1.4194	-5.6827	-0.0070	0.2839	-2.4373					
26	0.0	-0.57	0.0338	-0.0913	1.2648	-5.1963	-0.0020	0.2782	-2.7018					
27	0.0	0.19	0.0448	-0.0937	1.1305	-4.7452	0.0	0.2716	-2.0920					
28	0.0	0.93	0.0380	-0.1042	0.9774	-4.2849	-0.0060	0.2692	-2.7421					
29	0.01	1.71	0.0511	-0.0725	0.7963	-3.8495	-0.0060	0.2644	-1.4196					
30	0.0	2.49	0.0304	-0.0586	0.6653	-3.3301	-0.0060	0.2588	-1.9263					
31	0.01	3.27	0.0451	-0.0721	0.4425	-2.9143	-0.0050	0.2555	-1.5946					
32	0.01	4.01	0.0282	-0.0205	0.2842	-2.4256	-0.0020	0.2466	-0.7262					
33	0.01	4.83	0.0095	0.0167	0.1579	-1.9518	0.0010	0.2372	1.7579					
34	0.01	5.62	0.0289	0.0035	-0.0037	-1.6446	0.0020	0.2406	0.1225					
35	0.01	6.47	0.0146	0.0056	-0.1379	-1.2068	0.0010	0.2406	0.3808					
36	0.01	7.24	0.0044	0.0458	-0.2958	-0.8138	0.0020	0.2290	10.4182					
37	0.01	8.06	0.0046	0.0785	-0.4704	-0.4052	0.0050	0.2222	17.0782					
38	0.01	8.84	0.0159	0.0207	-0.6501	0.0083	-0.0010	0.2074	1.8075					
39	0.01	9.68	-0.0115	0.1021	-0.8202	0.3384	0.0020	0.1961	-8.8783					
40	0.01	10.49	0.0102	0.0577	-0.9042	0.6879	-0.0050	0.1827	5.6588					
41	0.01	11.29	0.0096	0.0746	-1.1174	1.0694	-0.0090	0.1563	7.7607					
42	0.01	12.07	-0.0106	0.1788	-1.3215	1.5242	-0.0070	0.1362	-16.8717					
43	0.02	12.90	-0.0014	0.1649	-1.4614	2.0170	-0.0160	0.1100	-117.8285					
44	0.01	13.62	-0.0055	0.1547	-1.7047	2.4613	-0.0230	0.0860	-28.1273					
45	0.02	14.45	-0.0233	0.2246	-1.8557	2.8799	-0.0250	0.0752	-9.6403					
46	0.02	15.18	-0.0115	0.2131	-2.1347	3.3226	-0.0310	0.0485	-18.5304					

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 104 0.97 1.7 0.0 B2WOF13 0.0 10 0 10 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	0.02	15.98	-0.0197	0.2475	-2.2915	3.7720	-0.0320	0.0372	-12.5675	
48	0.01	16.76	-0.0120	0.1788	-2.4270	4.1557	-0.0490	0.0274	-14.9000	
49	0.01	17.58	-0.0042	0.1439	-2.7362	4.6136	-0.0570	0.0013	-34.2572	
50	0.02	18.41	-0.0227	0.2737	-2.9784	5.0347	-0.0410	-0.0353	-12.0608	
51	0.02	19.24	-0.0300	0.2960	-3.1996	5.4293	-0.0350	-0.0596	-9.8667	
52	0.02	20.06	-0.0282	0.2744	-3.3020	5.6766	-0.0400	-0.0698	-9.7333	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 104 0.97 1.7				0.0	0.2WOF13	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YC PF1	CNF2	CH2	CB2	XC PF2	YC PF2	
1	0.0	-19.83	1.1012	0.0182	0.4031	0.0165	0.3660	0.0358	0.0044	-0.0061	0.1216	-0.1696	
2	0.0	-19.67	1.1046	0.0180	0.4035	0.0163	0.3656	0.0300	0.0029	-0.0105	0.0976	-0.3501	
3	0.0	-18.84	1.0957	0.0182	0.4020	0.0166	0.3669	0.0319	0.0035	-0.0129	0.1082	-0.4035	
4	0.0	-18.06	1.0908	0.0185	0.4016	0.0170	0.3682	0.0322	0.0017	-0.0077	0.0536	-0.2382	
5	0.0	-17.17	1.0811	0.0195	0.3961	0.0181	0.3663	0.0267	0.0025	-0.0139	0.0928	-0.5207	
6	0.0	-16.38	1.0991	0.0204	0.3942	0.0186	0.3586	0.0249	0.0031	-0.0181	0.1236	-0.7270	
7	-0.03	-15.57	1.3534	0.0148	0.4543	0.0109	0.3652	0.0950	-0.0046	0.0132	-0.0482	0.1393	
8	-0.03	-14.80	1.3546	0.0158	0.5018	0.0117	0.3704	0.1001	-0.0035	0.0144	-0.0345	0.1442	
9	-0.03	-13.95	1.3859	0.0187	0.5100	0.0135	0.3680	0.1118	-0.0034	0.0189	-0.0484	0.1694	
10	-0.03	-13.14	1.3389	0.0209	0.4934	0.0156	0.3685	0.0456	-0.0003	-0.0109	-0.0066	-0.2392	
11	0.0	-12.37	1.2992	0.0243	0.4823	0.0187	0.3713	0.0242	0.0018	-0.0147	0.0744	-0.6089	
12	-0.01	-11.63	1.2730	0.0292	0.4804	0.0229	0.3774	0.0190	0.0	-0.0158	0.0	-0.8299	
13	0.0	-10.84	1.2625	0.0336	0.4725	0.0266	0.3746	0.0116	0.0002	-0.0193	0.0194	-1.6668	
14	0.0	-10.10	1.2405	0.0385	0.4651	0.0311	0.3749	0.0153	0.0	-0.0173	0.0	-1.1308	
15	0.0	-9.32	1.1966	0.0432	0.4572	0.0361	0.3821	0.0102	0.0008	-0.0194	0.0809	-1.9021	
16	0.0	-8.56	1.1702	0.0459	0.4495	0.0392	0.3844	0.0092	-0.0002	-0.0206	-0.0245	-2.2429	
17	0.0	-7.79	1.1275	0.0496	0.4351	0.0440	0.3859	0.0031	-0.0010	-0.0235	-0.3147	-7.5700	
18	0.0	-6.96	1.0939	0.0524	0.4227	0.0479	0.3864	0.0074	-0.0006	-0.0189	-0.0811	-2.5587	
19	0.0	-6.16	1.0732	0.0576	0.4202	0.0537	0.3916	0.0038	-0.0009	-0.0210	-0.2370	-5.5552	
20	0.0	-5.37	1.0235	0.0610	0.4080	0.0596	0.3986	0.0075	-0.0009	-0.0190	-0.1201	-2.5335	
21	0.0	-4.62	0.9673	0.0613	0.3960	0.0634	0.4093	0.0020	-0.0009	-0.0191	-0.4503	-9.5668	
22	0.0	-3.81	0.9191	0.0616	0.3820	0.0670	0.4156	0.0096	0.0	-0.0167	0.0	-1.7397	
23	0.0	-3.02	0.8586	0.0583	0.3647	0.0675	0.4248	0.0090	-0.0009	-0.0195	-0.1001	-2.1668	
24	0.0	-2.18	0.7846	0.0562	0.3399	0.0716	0.4332	0.0028	-0.0020	-0.0219	-0.6969	-7.8096	
25	0.0	-1.39	0.7186	0.0537	0.3122	0.0747	0.4344	0.0125	-0.0002	-0.0170	-0.0120	-1.3628	
26	0.0	-0.57	0.6449	0.0529	0.2874	0.0821	0.4457	0.0118	-0.0008	-0.0196	-0.0636	-1.6583	
27	0.0	0.19	0.5476	0.0507	0.2569	0.0926	0.4692	0.0101	-0.0005	-0.0183	-0.0446	-1.8153	
28	0.0	0.93	0.4643	0.0467	0.2234	0.1006	0.4813	0.0115	-0.0003	-0.0185	-0.0261	-1.6059	
29	0.01	1.71	0.3962	0.0429	0.1990	0.1082	0.5022	0.0122	0.0010	-0.0161	0.0800	-1.3225	
30	0.0	2.49	0.3182	0.0360	0.1708	0.1133	0.5367	0.0107	0.0012	-0.0159	0.1122	-1.4892	
31	0.01	3.27	0.2467	0.0288	0.1436	0.1169	0.5822	0.0121	0.0014	-0.0161	0.1178	-1.3279	
32	0.01	4.01	0.1504	0.0200	0.1129	0.1333	0.7510	0.0035	0.0005	-0.0201	0.1501	-5.7525	
33	0.01	4.83	0.0858	0.0136	0.0882	0.1583	1.0279	0.0119	0.0006	-0.0208	0.0505	-1.7508	
34	0.01	5.62	0.0238	0.0053	0.0668	0.2207	2.8038	0.0090	0.0006	-0.0200	0.0667	-2.2223	
35	0.01	6.47	-0.0342	-0.0020	0.0454	0.0571	-1.3276	0.0164	0.0012	-0.0166	0.0732	-1.0143	
36	0.01	7.24	-0.0990	-0.0106	0.0223	0.1070	-0.2249	0.0087	0.0009	-0.0192	0.1035	-2.2070	
37	0.01	8.06	-0.1575	-0.0193	-0.0003	0.1225	0.0022	0.0070	-0.0002	-0.0229	-0.0322	-3.2668	
38	0.01	8.84	-0.2168	-0.0288	-0.0202	0.1330	0.0933	0.0191	0.0015	-0.0166	0.0786	-0.8710	
39	0.01	9.68	-0.2803	-0.0385	-0.0390	0.1374	0.1390	0.0144	0.0005	-0.0196	0.0313	-1.3612	
40	0.01	10.49	-0.3240	-0.0490	-0.0639	0.1513	0.1973	0.0142	0.0014	-0.0169	0.0743	-0.8803	
41	0.01	11.29	-0.3939	-0.0590	-0.0857	0.1498	0.2176	0.0241	0.0020	-0.0147	0.0841	-0.6087	
42	0.01	12.07	-0.4710	-0.0688	-0.1101	0.1460	0.2338	0.0184	0.0010	-0.0191	0.0530	-1.0364	
43	0.02	12.90	-0.5462	-0.0770	-0.1404	0.1409	0.2570	0.0259	0.0018	-0.0161	0.0695	-0.6205	
44	0.01	13.62	-0.6115	-0.0830	-0.1698	0.1357	0.2776	0.0300	0.0024	-0.0162	0.0800	-0.5401	
45	0.02	14.45	-0.6953	-0.0871	-0.1947	0.1253	0.2800	0.0366	0.0029	-0.0150	0.0779	-0.4100	
46	0.02	15.18	-0.7717	-0.0893	-0.2211	0.1157	0.2865	0.0288	0.0030	-0.0168	0.1042	-0.5835	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION													
6	104	0.97	1.7	0.0	82WUF13	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2	
47	0.02	15.98	-0.8299	-0.0910	-0.2430	0.1097	0.2928	0.0372	0.0044	-0.0124	0.1190	-0.3335	
48	0.01	16.76	-0.8971	-0.0911	-0.2737	0.1015	0.3051	0.0383	0.0046	-0.0112	0.1195	-0.2934	
49	0.01	17.58	-0.9904	-0.0906	-0.2997	0.0914	0.3026	0.0373	0.0047	-0.0127	0.1247	-0.3397	
50	0.02	18.41	-1.0597	-0.0910	-0.3246	0.0859	0.3063	0.0335	0.0032	-0.0134	0.0941	-0.4011	
51	0.02	19.24	-1.1069	-0.0907	-0.3445	0.0819	0.3112	0.0440	0.0049	-0.0059	0.1109	-0.1350	
52	0.02	20.06	-1.1553	-0.0906	-0.3618	0.0784	0.3131	0.0408	0.0033	-0.0092	0.0809	-0.2256	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 104 0.97 1.7			0.0	B2WOF13	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCFF3	CNF4	CH4	CB4	XCFF4	YCFF4
1	0.0	-19.83	1.1507	0.0167	0.4006	0.0146	0.3482	0.0021	-0.0020	-0.0005	-0.9291	-0.2382
2	0.0	-19.87	1.1537	0.0167	0.4016	0.0144	0.3481	0.0023	-0.0021	-0.0005	-0.9136	-0.2320
3	0.0	-18.84	1.1529	0.0173	0.3988	0.0150	0.3459	0.0034	-0.0031	-0.0008	-0.9050	-0.2256
4	0.0	-18.06	1.1344	0.0182	0.3917	0.0160	0.3453	0.0026	-0.0024	-0.0005	-0.9237	-0.2052
5	0.0	-17.17	1.1319	0.0191	0.3890	0.0169	0.3436	0.0026	-0.0024	-0.0005	-0.9237	-0.2052
6	0.0	-16.38	1.1203	0.0201	0.3824	0.0180	0.3413	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
7	-0.03	-15.57	1.0282	0.0244	0.3433	0.0237	0.3339	0.0009	-0.0008	-0.0002	-0.9172	-0.2223
8	-0.03	-14.80	1.0319	0.0247	0.3420	0.0239	0.3315	0.0016	-0.0015	-0.0004	-0.9381	-0.2293
9	-0.03	-13.95	1.0063	0.0260	0.3307	0.0258	0.3286	0.0001	-0.0002	0.0000	-1.5009	0.3332
10	-0.03	-13.14	1.2680	0.0210	0.4194	0.0166	0.3308	0.0002	-0.0002	-0.0000	-0.7505	-0.1668
11	0.0	-12.37	1.3522	0.0216	0.4625	0.0160	0.3420	-0.0001	0.0002	-0.0000	-1.5009	0.3332
12	-0.01	-11.63	1.3335	0.0246	0.4608	0.0184	0.3455	-0.0001	0.0002	-0.0000	-1.5009	0.3332
13	0.0	-10.84	1.3236	0.0286	0.4581	0.0216	0.3446	0.0006	-0.0006	-0.0001	-1.0006	-0.1668
14	0.0	-10.10	1.3115	0.0319	0.4466	0.0243	0.3405	-0.0013	0.0013	0.0003	-0.9614	-0.2052
15	0.0	-9.32	1.2882	0.0363	0.4391	0.0282	0.3408	-0.0010	0.0010	0.0002	-0.9756	-0.1668
16	0.0	-8.56	1.2727	0.0408	0.4374	0.0320	0.3437	-0.0002	0.0002	0.0000	-0.7505	-0.1668
17	0.0	-7.79	1.2505	0.0448	0.4335	0.0358	0.3467	-0.0016	0.0015	0.0004	-0.9381	-0.2293
18	0.0	-6.96	1.2176	0.0481	0.4203	0.0395	0.3452	-0.0023	0.0021	0.0004	-0.9136	-0.1885
19	0.0	-6.16	1.1769	0.0512	0.4029	0.0435	0.3423	-0.0005	0.0005	0.0001	-0.9006	-0.2668
20	0.0	-5.37	1.1340	0.0555	0.3871	0.0489	0.3413	-0.0007	0.0007	0.0002	-0.9649	-0.2382
21	0.0	-4.62	1.1125	0.0604	0.3817	0.0543	0.3431	-0.0017	0.0016	0.0003	-0.9270	-0.1962
22	0.0	-3.81	1.0744	0.0616	0.3737	0.0573	0.3478	-0.0030	0.0028	0.0006	-0.9256	-0.2001
23	0.0	-3.02	1.0338	0.0586	0.3655	0.0567	0.3535	-0.0008	0.0008	0.0001	-0.9381	-0.1668
24	0.0	-2.18	0.9586	0.0562	0.3395	0.0586	0.3542	-0.0014	0.0013	0.0003	-0.9113	-0.2382
25	0.0	-1.39	0.8981	0.0536	0.3194	0.0597	0.3556	-0.0023	0.0022	0.0004	-0.9462	-0.1885
26	0.0	-0.57	0.8263	0.0515	0.2870	0.0623	0.3474	-0.0012	0.0011	0.0003	-0.8755	-0.2501
27	0.0	0.19	0.7471	0.0500	0.2562	0.0604	0.3429	-0.0023	0.0022	0.0004	-0.9462	-0.1885
28	0.0	0.93	0.6877	0.0469	0.2270	0.0682	0.3302	-0.0038	0.0035	0.0007	-0.9282	-0.1931
29	0.01	1.71	0.6040	0.0430	0.2012	0.0712	0.3330	-0.0041	0.0038	0.0008	-0.9152	-0.2034
30	0.0	2.49	0.5249	0.0378	0.1697	0.0720	0.3233	-0.0023	0.0022	0.0004	-0.9462	-0.1885
31	0.01	3.27	0.4536	0.0318	0.1427	0.0700	0.3145	-0.0029	0.0027	0.0005	-0.9316	-0.1840
32	0.01	4.01	0.3728	0.0240	0.1133	0.0643	0.3040	-0.0020	0.0019	0.0004	-0.9381	-0.2168
33	0.01	4.83	0.2910	0.0175	0.0867	0.0601	0.2981	-0.0017	0.0016	0.0003	-0.9270	-0.1962
34	0.01	5.62	0.2408	0.0126	0.0676	0.0524	0.2809	-0.0006	0.0005	0.0001	-0.8755	-0.1668
35	0.01	6.47	0.1735	0.0044	0.0403	0.0255	0.2323	0.0004	-0.0004	-0.0001	-0.9381	-0.1668
36	0.01	7.24	0.1112	-0.0020	0.0178	-0.0176	0.1604	0.0004	-0.0004	-0.0001	-0.9381	-0.1668
37	0.01	8.06	0.0490	-0.0090	-0.0054	-0.1838	-0.1096	0.0012	-0.0011	-0.0003	-0.9381	-0.2501
38	0.01	8.84	-0.0161	-0.0151	-0.0230	0.9369	1.4264	0.0016	-0.0015	-0.0004	-0.9381	-0.2273
39	0.01	9.68	-0.0907	-0.0244	-0.0441	0.2689	0.4865	0.0034	-0.0032	-0.0008	-0.9270	-0.2256
40	0.01	10.49	-0.1363	-0.0312	-0.0601	0.2292	0.4411	0.0043	-0.0040	-0.0010	-0.9250	-0.2249
41	0.01	11.29	-0.1983	-0.0402	-0.0854	0.2030	0.4306	0.0063	-0.0058	-0.0014	-0.9172	-0.2223
42	0.01	12.07	-0.2668	-0.0482	-0.1046	0.1807	0.3921	0.0070	-0.0065	-0.0015	-0.9220	-0.2096
43	0.02	12.90	-0.3383	-0.0553	-0.1314	0.1636	0.3885	0.0078	-0.0071	-0.0017	-0.9140	-0.2181
44	0.01	13.62	-0.4209	-0.0602	-0.1576	0.1431	0.3743	0.0096	-0.0088	-0.0021	-0.9146	-0.2189
45	0.02	14.45	-0.4933	-0.0636	-0.1886	0.1289	0.3823	0.0104	-0.0096	-0.0022	-0.9237	-0.2149
46	0.02	15.18	-0.5578	-0.0640	-0.2133	0.1147	0.3824	0.0089	-0.0083	-0.0019	-0.9275	-0.2173

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 104 0.97 1.7 0.0 B2WOF13 0.0 10 0 10 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	15.98	-0.6477	-0.0634	-0.2423	0.0980	0.3742	0.0126	-0.0116	-0.0027	-0.9232	-0.2144
48	0.01	16.76	-0.7016	-0.0644	-0.2609	0.0917	0.3719	0.0104	-0.0096	-0.0022	-0.9237	-0.2149
49	0.01	17.58	-0.7627	-0.0630	-0.2838	0.0826	0.3720	0.0093	-0.0086	-0.0020	-0.9199	-0.2152
50	0.02	18.41	-0.8345	-0.0612	-0.3153	0.0733	0.3778	0.0086	-0.0080	-0.0018	-0.9250	-0.2133
51	0.02	19.24	-0.9043	-0.0588	-0.3419	0.0650	0.3781	0.0099	-0.0091	-0.0022	-0.9172	-0.2223
52	0.02	20.06	-0.9587	-0.0572	-0.3574	0.0597	0.3728	0.0109	-0.0101	-0.0024	-0.9226	-0.2172

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST 6	PART 105	MACH 1.01	AXIS 1.7	PHI 0.0	CONF 82WOF13	L 0.0	DEL1 10	DEL2 0	DEL3 10	DEL4 0	TRANSITION FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.0	-19.90	0.1088	-0.3313	4.5173	-10.2737	0.0070	0.5245	-3.0452		
2	0.0	-19.93	0.1086	-0.2500	4.5030	-10.1657	0.0110	0.5324	-2.3024		
3	0.0	-19.84	0.0981	-0.2993	4.5676	-10.1531	0.0210	0.5211	-3.0514		
4	0.0	-19.04	0.1210	-0.3853	4.4055	-10.2482	0.0080	0.5262	-3.1851		
5	0.0	-18.21	0.0752	-0.2918	4.3815	-10.4066	0.0050	0.5203	-3.6854		
6	0.0	-17.35	0.0819	-0.2966	4.1653	-10.2618	0.0070	0.5216	-3.6222		
7	-0.01	-16.56	0.0853	-0.3234	4.0316	-10.2826	0.0050	0.5183	-3.7916		
8	0.0	-15.72	0.0636	-0.2440	3.9273	-10.2696	0.0170	0.5179	-3.8371		
9	-0.01	-14.94	0.0559	-0.2482	3.7526	-10.1770	0.0090	0.5175	-4.4411		
10	0.0	-14.10	0.0732	-0.2175	3.6485	-10.1193	0.0160	0.5126	-2.9710		
11	0.0	-13.29	0.0599	-0.2258	3.4844	-10.0005	0.0140	0.5210	-3.7706		
12	0.0	-12.48	0.0650	-0.2250	3.3635	-9.6362	0.0150	0.5119	-3.4615		
13	0.0	-11.72	0.0575	-0.2345	3.2581	-9.6896	0.0100	0.5027	-4.0783		
14	0.0	-10.93	0.0603	-0.2064	3.0767	-9.4307	0.0120	0.4999	-3.4232		
15	0.0	-10.20	0.0588	-0.1883	2.9602	-9.2246	0.0110	0.4940	-3.2027		
16	0.0	-9.40	0.0558	-0.1671	2.8410	-8.9938	0.0130	0.4781	-2.9950		
17	0.0	-8.65	0.0750	-0.2200	2.7026	-8.7061	0.0150	0.4726	-2.9333		
18	0.0	-7.84	0.0790	-0.2256	2.5521	-8.4303	0.0190	0.4615	-2.8557		
19	0.0	-7.06	0.0834	-0.2527	2.3541	-8.1761	0.0400	0.4484	-3.0307		
20	0.0	-6.24	0.0648	-0.1907	2.3805	-8.2020	0.0150	0.4389	-2.9432		
21	0.0	-5.46	0.0647	-0.2066	2.1999	-7.8832	0.0060	0.4316	-3.1929		
22	0.0	-4.69	0.0722	-0.1881	2.0198	-7.4282	0.0040	0.4179	-2.6050		
23	0.0	-3.92	0.0769	-0.1976	1.9180	-7.0607	0.0	0.4072	-2.5704		
24	0.0	-3.13	0.0628	-0.1569	1.7362	-6.6171	-0.0010	0.3986	-2.4987		
25	0.0	-2.29	0.0375	-0.1135	1.6219	-6.2231	0.0010	0.3905	-3.0267		
26	0.0	-1.48	0.0616	-0.1452	1.4808	-5.7656	-0.0050	0.3816	-2.3578		
27	0.0	-0.67	0.0669	-0.1616	1.2840	-5.2632	-0.0060	0.3716	-2.4164		
28	0.0	0.09	0.0577	-0.1408	1.0829	-4.7716	-0.0040	0.3634	-2.4339		
29	0.01	0.82	0.0589	-0.1094	0.9701	-4.3507	-0.0040	0.3534	-1.6584		
30	0.01	1.62	0.0489	-0.0784	0.8458	-3.8997	-0.0080	0.3388	-1.6045		
31	0.0	2.38	0.0514	-0.1079	0.6543	-3.3837	-0.0070	0.3257	-2.1004		
32	0.0	3.19	0.0305	-0.0677	0.4662	-2.8804	0.0	0.3132	-2.2197		
33	0.01	3.95	0.0558	-0.0761	0.3387	-2.5159	-0.0060	0.3039	-1.3642		
34	0.01	4.68	0.0170	0.0082	0.1911	-2.0833	-0.0010	0.2901	0.4824		
35	0.01	5.34	0.0211	-0.0045	0.0477	-1.6616	0.0040	0.2799	-0.2152		
36	0.01	6.34	0.0354	-0.0326	-0.1384	-1.2311	-0.0010	0.2760	-0.9198		
37	0.01	7.18	-0.0008	0.0621	-0.2918	-0.8854	0.0050	0.2742	-7.6500		
38	0.01	7.95	0.0045	0.0357	-0.4697	-0.4812	0.0	0.2608	7.9333		
39	0.01	8.76	0.0234	0.0292	-0.6183	-0.0832	0.0010	0.2547	1.2496		
40	0.01	9.58	0.0129	0.0509	-0.7140	0.2407	0.0010	0.2443	3.9488		
41	0.01	10.35	0.0055	0.1023	-0.9220	0.6456	-0.0010	0.2238	18.6000		
42	0.01	11.18	0.0161	0.0934	-1.1043	1.0400	-0.0110	0.1924	5.8050		
43	0.01	11.96	0.0083	0.1154	-1.2899	1.4749	-0.0110	0.1822	13.9012		
44	0.02	12.77	0.0103	0.1376	-1.4744	1.9662	-0.0160	0.1574	13.3573		
45	0.02	13.49	0.0244	0.1368	-1.6845	2.3453	-0.0210	0.1404	5.6082		
46	0.02	14.28	-0.0181	0.2063	-1.8897	2.7545	-0.0240	0.1265	-11.4000		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6	105	1.01	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	15.05	-0.0090	0.2306	-2.0834	3.2018	-0.0350	0.0955	-25.6222		
48	0.03	15.85	-0.0234	0.3487	-2.2964	3.5649	-0.0270	0.0735	-14.9043		
49	0.02	16.60	-0.0174	0.2723	-2.4538	3.9552	-0.0340	0.0592	-15.6529		
50	0.03	17.38	0.0032	0.2865	-2.7087	4.3752	-0.0230	0.0286	89.5375		
51	0.02	18.25	-0.0495	0.4072	-2.9308	4.7961	-0.0380	-0.0003	-8.2283		
52	0.02	19.08	-0.0036	0.2690	-3.1017	5.0423	-0.0480	0.0004	-74.7333		
53	0.02	19.86	-0.0337	0.3381	-3.3729	5.3489	-0.0390	-0.0307	-10.0350		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	105	1.01	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNFI	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.0	-19.90	1.4854	0.0045	0.5494	0.0030	0.3699	0.0322	0.0016	-0.0154	0.0489	-0.4773
2	0.0	-19.93	1.4885	0.0044	0.5510	0.0030	0.3702	0.0308	-0.0002	-0.0145	-0.0049	-0.4720
3	0.0	-19.84	1.4954	0.0040	0.5515	0.0027	0.3688	0.0335	-0.0002	-0.0143	-0.0067	-0.4280
4	0.0	-19.04	1.4855	0.0051	0.5494	0.0034	0.3699	0.0372	0.0016	-0.0135	0.0424	-0.3630
5	0.0	-18.21	1.4895	0.0060	0.5490	0.0040	0.3685	0.0317	0.0010	-0.0132	0.0308	-0.4176
6	0.0	-17.35	1.4802	0.0082	0.5457	0.0055	0.3686	0.0423	0.0013	-0.0061	0.0302	-0.1443
7	-0.01	-16.56	1.4676	0.0093	0.5407	0.0063	0.3684	0.0370	0.0016	-0.0128	0.0426	-0.3452
8	0.0	-15.72	1.4532	0.0122	0.5400	0.0084	0.3716	0.0317	-0.0007	-0.0124	-0.0213	-0.3923
9	-0.01	-14.94	1.4406	0.0139	0.5332	0.0096	0.3701	0.0288	-0.0033	-0.0177	-0.0104	-0.6147
10	0.0	-14.10	1.4311	0.0170	0.5296	0.0119	0.3701	0.0249	-0.0011	-0.0127	-0.0452	-0.5102
11	0.0	-13.29	1.3984	0.0200	0.5219	0.0143	0.3732	0.0255	-0.0011	-0.0151	-0.0412	-0.5923
12	0.0	-12.48	1.3649	0.0232	0.5105	0.0170	0.3743	0.0231	-0.0001	-0.0169	-0.0032	-0.7317
13	0.0	-11.72	1.3342	0.0273	0.5021	0.0205	0.3763	0.0245	-0.0002	-0.0171	-0.0061	-0.6994
14	0.0	-10.93	1.2888	0.0305	0.4935	0.0237	0.3629	0.0243	-0.0005	-0.0163	-0.0185	-0.6709
15	0.0	-10.20	1.2634	0.0351	0.4870	0.0278	0.3855	0.0195	0.0	-0.0189	0.0	-0.9693
16	0.0	-9.40	1.2254	0.0397	0.4767	0.0324	0.3891	0.0103	0.0	-0.0202	0.0	-1.9580
17	0.0	-8.65	1.1800	0.0428	0.4616	0.0363	0.3912	0.0100	-0.0002	-0.0190	-0.0150	-1.8968
18	0.0	-7.84	1.1361	0.0460	0.4507	0.0404	0.3967	0.0146	0.0005	-0.0215	0.0360	-1.4750
19	0.0	-7.06	1.1269	0.0493	0.4568	0.0437	0.4054	0.0160	0.0005	-0.0217	0.0328	-1.3543
20	0.0	-6.24	1.1051	0.0465	0.4554	0.0421	0.4121	0.0144	0.0	-0.0206	0.0	-1.4307
21	0.0	-5.46	1.0537	0.0456	0.4366	0.0433	0.4144	0.0160	0.0002	-0.0217	0.0094	-1.3543
22	0.0	-4.69	0.9849	0.0446	0.4168	0.0453	0.4232	0.0166	0.0002	-0.0242	0.0090	-1.4559
23	0.0	-3.92	0.9168	0.0439	0.3950	0.0479	0.4309	0.0213	0.0014	-0.0164	0.0634	-0.7701
24	0.0	-3.13	0.8593	0.0434	0.3733	0.0505	0.4344	0.0234	0.0011	-0.0193	0.0449	-0.8249
25	0.0	-2.29	0.7854	0.0424	0.3473	0.0540	0.4421	0.0163	0.0003	-0.0232	0.0184	-1.4214
26	0.0	-1.48	0.6988	0.0408	0.3173	0.0583	0.4541	0.0173	0.0005	-0.0218	0.0304	-1.2622
27	0.0	-0.67	0.6203	0.0408	0.2851	0.0658	0.4597	0.0210	0.0009	-0.0205	0.0429	-0.9763
28	0.0	0.09	0.5442	0.0392	0.2570	0.0720	0.4722	0.0210	0.0009	-0.0201	0.0429	-0.9573
29	0.01	0.82	0.4763	0.0375	0.2334	0.0788	0.4901	0.0258	0.0017	-0.0181	0.0669	-0.7017
30	0.01	1.62	0.3821	0.0336	0.1997	0.0878	0.5225	0.0234	0.0012	-0.0192	0.0513	-0.8206
31	0.0	2.38	0.3132	0.0285	0.1740	0.0911	0.5556	0.0256	0.0016	-0.0172	0.0616	-0.6707
32	0.0	3.19	0.2374	0.0230	0.1474	0.0968	0.6206	0.0283	0.0017	-0.0173	0.0610	-0.6102
33	0.01	3.95	0.1576	0.0169	0.1210	0.1072	0.7681	0.0249	0.0014	-0.0196	0.0573	-0.7873
34	0.01	4.68	0.0836	0.0102	0.0987	0.1221	1.1801	0.0211	0.0007	-0.0201	0.0320	-0.9511
35	0.01	5.54	0.0277	0.0032	0.0739	0.1138	2.6653	0.0224	0.0011	-0.0201	0.0503	-0.8989
36	0.01	6.34	-0.0466	-0.0033	0.0524	0.0709	-1.1239	0.0324	0.0020	-0.0170	0.0625	-0.5248
37	0.01	7.18	-0.1064	-0.0113	0.0299	0.1059	-0.2811	0.0218	0.0005	-0.0230	0.0207	-1.0567
38	0.01	7.95	-0.1710	-0.0197	0.0073	0.1151	-0.0424	0.0326	0.0020	-0.0177	0.0599	-0.5441
39	0.01	8.76	-0.2285	-0.0291	-0.0154	0.1272	0.0675	0.0301	0.0020	-0.0185	0.0673	-0.6136
40	0.01	9.58	-0.2720	-0.0382	-0.0360	0.1405	0.1324	0.0300	0.0023	-0.0184	0.0715	-0.6135
41	0.01	10.35	-0.3516	-0.0496	-0.0589	0.1412	0.1676	0.0280	0.0014	-0.0208	0.0509	-0.7418
42	0.01	11.18	-0.4054	-0.0595	-0.0841	0.1469	0.2074	0.0354	0.0023	-0.0181	0.0636	-0.5114
43	0.01	11.96	-0.4700	-0.0681	-0.1087	0.1449	0.2312	0.0350	0.0024	-0.0165	0.0686	-0.4725
44	0.02	12.77	-0.5518	-0.0751	-0.1363	0.1361	0.2471	0.0376	0.0029	-0.0161	0.0758	-0.4274
45	0.02	13.49	-0.6116	-0.0797	-0.1627	0.1303	0.2660	0.0444	0.0039	-0.0109	0.0879	-0.2456
46	0.02	14.28	-0.6892	-0.0832	-0.1894	0.1207	0.2749	0.0402	0.0027	-0.0154	0.0672	-0.3832

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	105	1.01	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
47	0.02	15.05	-0.7649	-0.0870	-0.2156	0.1138	0.2818	0.0401	0.0034	-0.0151	0.0842	-0.3775
48	0.03	15.85	-0.8224	-0.0890	-0.2392	0.1082	0.2909	0.0382	0.0033	-0.0184	0.0864	-0.4809
49	0.02	16.60	-0.8978	-0.0899	-0.2627	0.1001	0.2926	0.0451	0.0039	-0.0135	0.0865	-0.2987
50	0.03	17.38	-0.9655	-0.0890	-0.2850	0.0922	0.2952	0.0445	0.0042	-0.0165	0.0944	-0.3702
51	0.02	18.25	-1.0372	-0.0884	-0.3110	0.0852	0.2998	0.0346	0.0026	-0.0198	0.0737	-0.5714
52	0.02	19.08	-1.0903	-0.0867	-0.3324	0.0795	0.3049	0.0476	0.0042	-0.0120	0.0883	-0.2529
53	0.02	19.86	-1.1373	-0.0864	-0.3454	0.0760	0.3072	0.0484	0.0042	-0.0097	0.0868	-0.1998

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 105 1.01 1.7			0.0	B2WOF13	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.0	-19.90	1.5253	0.0039	0.5442	0.0026	0.3568	0.0019	-0.0018	-0.0004	-0.9480	-0.1931
2	0.0	-19.93	1.5016	0.0044	0.5363	0.0029	0.3571	0.0026	-0.0024	-0.0005	-0.9237	-0.2052
3	0.0	-19.84	1.5010	0.0046	0.5304	0.0031	0.3533	0.0031	-0.0029	-0.0007	-0.9199	-0.2152
4	0.0	-19.04	1.5151	0.0044	0.5441	0.0029	0.3591	0.0024	-0.0023	-0.0005	-0.9381	-0.2085
5	0.0	-18.21	1.5337	0.0046	0.5486	0.0030	0.3577	0.0027	-0.0025	-0.0006	-0.9172	-0.2223
6	0.0	-17.35	1.5016	0.0071	0.5303	0.0048	0.3531	0.0016	-0.0015	-0.0004	-0.9381	-0.2293
7	-0.01	-16.56	1.5158	0.0083	0.5372	0.0054	0.3544	0.0027	-0.0025	-0.0006	-0.9172	-0.2223
8	0.0	-15.72	1.5054	0.0102	0.5286	0.0068	0.3512	0.0004	-0.0003	-0.0001	-0.7505	-0.1668
9	-0.01	-14.94	1.4858	0.0124	0.5250	0.0083	0.3533	0.0016	-0.0014	-0.0004	-0.8912	-0.2293
10	0.0	-14.10	1.4720	0.0146	0.5177	0.0099	0.3517	0.0010	-0.0009	-0.0003	-0.9006	-0.2668
11	0.0	-13.29	1.4692	0.0175	0.5107	0.0119	0.3476	-0.0001	0.0001	-0.0000	-0.7505	0.3332
12	0.0	-12.48	1.4445	0.0209	0.5027	0.0145	0.3480	0.0004	-0.0003	-0.0001	-0.7505	-0.1668
13	0.0	-11.72	1.4266	0.0246	0.4939	0.0172	0.3462	0.0002	-0.0002	-0.0000	-0.7505	-0.1668
14	0.0	-10.93	1.4024	0.0277	0.4829	0.0198	0.3443	-0.0005	0.0005	0.0001	-0.9006	-0.2668
15	0.0	-10.20	1.3792	0.0316	0.4763	0.0229	0.3453	-0.0005	0.0005	0.0001	-0.9006	-0.2668
16	0.0	-9.40	1.3539	0.0363	0.4672	0.0268	0.3450	-0.0017	0.0016	0.0003	-0.9270	-0.1962
17	0.0	-8.65	1.3209	0.0390	0.4558	0.0295	0.3450	-0.0039	0.0036	0.0008	-0.9237	-0.2052
18	0.0	-7.84	1.2727	0.0415	0.4400	0.0326	0.3457	-0.0032	0.0029	0.0006	-0.9146	-0.1980
19	0.0	-7.06	1.2344	0.0446	0.4266	0.0361	0.3456	-0.0015	0.0014	0.0003	-0.9506	-0.2001
20	0.0	-6.24	1.2594	0.0472	0.4452	0.0375	0.3535	-0.0018	0.0017	0.0004	-0.9172	-0.2223
21	0.0	-5.46	1.2355	0.0448	0.4375	0.0362	0.3541	-0.0029	0.0027	0.0005	-0.9316	-0.1840
22	0.0	-4.69	1.1674	0.0445	0.4171	0.0381	0.3573	-0.0008	0.0007	0.0001	-0.8443	-0.1668
23	0.0	-3.92	1.1129	0.0434	0.3966	0.0390	0.3563	-0.0037	0.0035	0.0008	-0.9330	-0.2073
24	0.0	-3.13	1.0516	0.0427	0.3696	0.0406	0.3515	-0.0014	0.0013	0.0003	-0.9113	-0.2382
25	0.0	-2.29	0.9794	0.0414	0.3447	0.0422	0.3519	-0.0008	0.0007	0.0001	-0.8443	-0.1668
26	0.0	-1.48	0.9113	0.0405	0.3202	0.0444	0.3513	-0.0031	0.0029	0.0007	-0.9199	-0.2152
27	0.0	-0.67	0.8518	0.0408	0.2862	0.0480	0.3360	-0.0032	0.0029	0.0006	-0.9146	-0.1980
28	0.0	0.09	0.7761	0.0393	0.2555	0.0506	0.3297	-0.0029	0.0027	0.0005	-0.9316	-0.1840
29	0.01	0.82	0.7020	0.0375	0.2292	0.0534	0.3265	-0.0031	0.0029	0.0007	-0.9199	-0.2152
30	0.01	1.62	0.6289	0.0354	0.2005	0.0562	0.3187	-0.0027	0.0026	0.0005	-0.9450	-0.1853
31	0.0	2.38	0.5416	0.0309	0.1692	0.0571	0.3123	-0.0026	0.0024	0.0005	-0.9237	-0.2052
32	0.0	3.19	0.4651	0.0255	0.1387	0.0549	0.2981	-0.0029	0.0027	0.0005	-0.9316	-0.1840
33	0.01	3.95	0.3970	0.0216	0.1183	0.0545	0.2979	-0.0020	0.0018	0.0004	-0.9006	-0.2168
34	0.01	4.68	0.3184	0.0149	0.0920	0.0469	0.2889	-0.0007	0.0007	0.0002	-0.9649	-0.2382
35	0.01	5.54	0.2498	0.0099	0.0647	0.0397	0.2591	0.0	0.0	0.0	0.0	0.0
36	0.01	6.34	0.1852	0.0050	0.0438	0.0272	0.2365	0.0007	-0.0006	-0.0002	-0.8577	-0.2382
37	0.01	7.18	0.1167	-0.0018	0.0160	-0.0154	0.1368	0.0012	-0.0011	-0.0003	-0.9381	-0.2501
38	0.01	7.95	0.0710	-0.0065	-0.0026	-0.0920	-0.0372	0.0014	-0.0013	-0.0003	-0.9113	-0.2382
39	0.01	8.76	-0.0092	-0.0134	-0.0215	1.4520	2.3332	0.0019	-0.0017	-0.0005	-0.9085	-0.2457
40	0.01	9.58	-0.0654	-0.0197	-0.0410	0.3018	0.6268	0.0036	-0.0033	-0.0008	-0.9172	-0.2223
41	0.01	10.35	-0.1201	-0.0276	-0.0645	0.2301	0.5374	0.0043	-0.0039	-0.0010	-0.9075	-0.2249
42	0.01	11.18	-0.1893	-0.0371	-0.0871	0.1959	0.4601	0.0062	-0.0057	-0.0013	-0.9199	-0.2152
43	0.01	11.96	-0.2621	-0.0451	-0.1087	0.1721	0.4145	0.0080	-0.0074	-0.0017	-0.9193	-0.2168
44	0.02	12.77	-0.3391	-0.0510	-0.1352	0.1504	0.3987	0.0103	-0.0095	-0.0023	-0.9180	-0.2202
45	0.02	13.49	-0.4092	-0.0550	-0.1604	0.1345	0.3919	0.0104	-0.0096	-0.0022	-0.9237	-0.2149
46	0.02	14.28	-0.4717	-0.0576	-0.1865	0.1208	0.3954	0.0110	-0.0101	-0.0024	-0.9210	-0.2213

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 105 1.01 1.7 0.0 B2WOF13 0.0 10 0 10 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	15.05	-0.5428	-0.0576	-0.2165	0.1061	0.3988	0.0103	-0.0095	-0.0023	-0.9253	-0.2202
48	0.03	15.85	-0.6129	-0.0571	-0.2416	0.0532	0.3941	0.0120	-0.0111	-0.0026	-0.9256	-0.2168
49	0.02	16.60	-0.6769	-0.0568	-0.2653	0.0839	0.3919	0.0128	-0.0119	-0.0027	-0.9264	-0.2137
50	0.03	17.38	-0.7351	-0.0574	-0.2869	0.0781	0.3902	0.0098	-0.0091	-0.0021	-0.9266	-0.2178
51	0.02	18.25	-0.7932	-0.0553	-0.3088	0.0698	0.3893	0.0115	-0.0106	-0.0026	-0.9201	-0.2233
52	0.02	19.08	-0.8539	-0.0531	-0.3308	0.0622	0.3875	0.0110	-0.0102	-0.0023	-0.9279	-0.2122
53	0.02	19.86	-0.9203	-0.0493	-0.3595	0.0536	0.3906	0.0139	-0.0128	-0.0031	-0.9232	-0.2207

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	OEL2	DEL3	DEL4	TRANSITION
6	106	1.05	1.7	0.0	82WOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-0.01	-19.88	0.1141	-0.4057	4.6316	-10.3877	0.0050	0.5987	-3.5560		
2	-0.01	-19.55	0.0725	-0.2955	4.5076	-10.3311	0.0050	0.6010	-4.0759		
3	-0.01	-18.79	0.1079	-0.3750	4.4449	-10.3813	-0.0050	0.5937	-3.4760		
4	0.0	-17.97	0.0847	-0.2985	4.3503	-10.4699	0.0	0.6052	-3.5251		
5	-0.01	-17.09	0.0968	-0.3395	4.1796	-10.3458	0.0140	0.6025	-3.5074		
6	0.0	-16.32	0.0862	-0.4096	4.0110	-10.3187	0.0090	0.5991	-3.5926		
7	-0.01	-15.48	0.0788	-0.3283	3.8726	-10.2390	0.0070	0.6024	-4.1665		
8	-0.01	-14.71	0.0739	-0.3076	3.6774	-10.0897	0.0040	0.6062	-4.1605		
9	0.0	-13.86	0.0719	-0.2586	3.5723	-9.9476	0.0060	0.5937	-3.5975		
10	0.0	-13.04	0.0575	-0.2015	3.3538	-9.7826	0.0040	0.5972	-3.5043		
11	0.0	-12.25	0.0805	-0.2327	3.3178	-9.6602	0.0090	0.5802	-2.8907		
12	0.0	-11.50	0.0789	-0.2544	3.1330	-9.4305	0.0120	0.5847	-3.2251		
13	0.0	-10.73	0.0642	-0.2229	3.0335	-9.3352	0.0110	0.5673	-3.4716		
14	0.0	-9.99	0.0662	-0.2374	3.0076	-9.2150	0.0130	0.5546	-3.4821		
15	0.0	-9.18	0.0749	-0.2438	2.8987	-9.2285	0.0420	0.5572	-3.2558		
16	0.0	-8.44	0.0571	-0.1729	2.7650	-9.1044	0.0130	0.5557	-3.0287		
17	0.0	-7.63	0.0546	-0.1784	2.5875	-8.8268	0.0140	0.5551	-3.2681		
18	0.0	-6.84	0.0660	-0.1574	2.4563	-8.5651	0.0050	0.5450	-2.3848		
19	0.0	-6.02	0.0451	-0.1331	2.2847	-8.1629	0.0050	0.5338	-2.9521		
20	0.0	-5.26	0.0548	-0.1257	2.2450	-7.9004	0.0320	0.5042	-2.2942		
21	0.01	-4.46	0.0557	-0.1480	2.0204	-7.3950	0.0	0.4967	-2.6507		
22	0.0	-3.70	0.0547	-0.1376	1.8083	-6.8780	-0.0010	0.4825	-2.5152		
23	0.0	-2.83	0.0466	-0.1022	1.6712	-6.4561	0.0020	0.4718	-2.1940		
24	0.0	-2.06	0.0601	-0.1331	1.6190	-6.1331	0.0010	0.4551	-2.2153		
25	0.0	-1.25	0.0488	-0.1083	1.3876	-5.6332	-0.0060	0.4475	-2.2197		
26	0.01	-0.45	0.0553	-0.0984	1.2116	-5.1109	-0.0030	0.4336	-1.7797		
27	0.0	0.34	0.0256	-0.0438	1.0888	-4.6848	-0.0020	0.4249	-1.7125		
28	0.0	1.09	0.0394	-0.0752	0.8544	-4.1198	-0.0030	0.4112	-1.9076		
29	0.01	1.87	0.0488	-0.0793	0.6936	-3.7257	-0.0090	0.4014	-1.6254		
30	0.01	2.63	0.0450	-0.0860	0.5201	-3.2629	-0.0030	0.3879	-1.9111		
31	0.01	3.39	0.0335	-0.0339	0.4494	-2.8379	-0.0080	0.3793	-1.0119		
32	0.01	4.19	0.0146	-0.0156	0.2793	-2.3217	0.0080	0.3657	1.3397		
33	0.01	4.99	0.0369	-0.0187	0.1047	-1.8923	-0.0050	0.3545	-0.5057		
34	0.01	5.82	0.0124	0.0556	-0.0703	-1.5444	0.0010	0.3481	4.4871		
35	0.01	6.61	0.0079	0.0899	-0.2011	-1.1673	0.0010	0.3423	11.3848		
36	0.01	7.43	0.0106	0.0492	-0.3632	-0.6904	-0.0030	0.3327	4.6377		
37	0.01	8.21	-0.0071	0.1169	-0.5305	-0.4041	0.0030	0.3265	-16.4734		
38	0.01	9.06	0.0171	0.0810	-0.6789	0.0166	0.0020	0.3079	4.7403		
39	0.01	9.84	-0.0084	0.1317	-0.8578	0.4560	0.0020	0.2921	-15.6857		
40	0.01	10.67	-0.0035	0.1319	-1.0038	0.8114	-0.0040	0.2779	-37.6857		
41	0.01	11.45	0.0156	0.0861	-1.2221	1.3050	-0.0120	0.2507	5.5231		
42	0.01	12.26	-0.0107	0.1300	-1.4329	1.7811	-0.0210	0.2342	-12.1477		
43	0.02	13.03	-0.0066	0.1752	-1.5511	2.1665	-0.0150	0.2112	-26.5515		
44	0.02	13.81	0.0097	0.1524	-1.7868	2.6485	-0.0260	0.1846	15.7134		
45	0.02	14.56	-0.0104	0.2165	-1.9607	2.9060	-0.0290	0.1771	-20.8231		
46	0.02	15.35	0.0084	0.2332	-2.1461	3.3675	-0.0210	0.1427	27.7667		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	106	1.05	1.7	0.0	82WOF13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.02	16.11	0.0082	0.1665	-2.3861	3.7305	-0.0400	0.1202	20.3073		
48	0.02	16.89	0.0029	0.2329	-2.5381	4.0032	-0.0380	0.0968	80.3241		
49	0.02	17.72	-0.0294	0.3071	-2.7865	4.3601	-0.0310	0.0704	-10.4476		
50	0.02	18.55	0.0047	0.2554	-3.0244	4.7061	-0.0390	0.0520	54.3447		
51	0.03	19.39	-0.0409	0.4362	-3.1790	4.9425	-0.0290	0.0310	-10.6665		
52	0.02	20.16	-0.0346	0.3464	-3.3993	5.1599	-0.0460	0.0226	-10.0127		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	106	1.05	1.7	0.0	82W0F13	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-0.01	-19.88	1.5201	0.0031	0.5696	0.0020	0.3747	0.0460	0.0025	-0.0127	0.0538	-0.2755
2	-0.01	-19.55	1.5086	0.0031	0.5704	0.0020	0.3781	0.0437	0.0010	-0.0081	0.0223	-0.1862
3	-0.01	-18.79	1.5038	0.0038	0.5636	0.0025	0.3748	0.0458	0.0039	-0.0124	0.0852	-0.2716
4	0.0	-17.97	1.5192	0.0051	0.5691	0.0034	0.3746	0.0485	0.0015	-0.0065	0.0309	-0.1348
5	-0.01	-17.09	1.4978	0.0080	0.5661	0.0054	0.3780	0.0389	-0.0010	-0.0092	-0.0251	-0.2375
6	0.0	-16.32	1.4759	0.0098	0.5565	0.0066	0.3771	0.0461	0.0005	-0.0128	0.0114	-0.2785
7	-0.01	-15.48	1.4650	0.0122	0.5471	0.0084	0.3734	0.0460	0.0010	-0.0128	0.0212	-0.2777
8	-0.01	-14.71	1.4319	0.0144	0.5385	0.0101	0.3760	0.0417	0.0	-0.0162	0.0	-0.3886
9	0.0	-13.86	1.4008	0.0169	0.5263	0.0121	0.3757	0.0403	0.0003	-0.0160	0.0074	-0.3963
10	0.0	-13.04	1.3797	0.0194	0.5169	0.0141	0.3746	0.0365	-0.0003	-0.0186	-0.0087	-0.5392
11	0.0	-12.25	1.3520	0.0235	0.5092	0.0174	0.3766	0.0332	-0.0007	-0.0185	-0.0203	-0.5584
12	0.0	-11.50	1.3162	0.0272	0.5013	0.0207	0.3809	0.0329	0.0006	-0.0182	0.0182	-0.5543
13	0.0	-10.73	1.2850	0.0338	0.4970	0.0263	0.3868	0.0207	-0.0002	-0.0209	-0.0073	-1.0098
14	0.0	-9.99	1.2657	0.0375	0.4945	0.0297	0.3910	0.0196	0.0005	-0.0221	0.0268	-1.1260
15	0.0	-9.18	1.2419	0.0358	0.5148	0.0277	0.3985	0.0279	0.0004	-0.0191	0.0134	-0.6847
16	0.0	-8.44	1.2422	0.0350	0.5067	0.0282	0.4079	0.0156	0.0001	-0.0217	0.0048	-1.3911
17	0.0	-7.63	1.2088	0.0342	0.4954	0.0283	0.4099	0.0113	-0.0001	-0.0251	-0.0066	-2.2243
18	0.0	-6.84	1.1646	0.0355	0.4818	0.0305	0.4137	0.0197	0.0	-0.0227	0.0	-1.1541
19	0.0	-6.02	1.0915	0.0358	0.4593	0.0328	0.4208	0.0163	-0.0002	-0.0247	-0.0092	-1.5134
20	0.0	-5.26	1.0332	0.0376	0.4393	0.0364	0.4252	0.0235	0.0	-0.0223	0.0	-0.9476
21	0.01	-4.46	0.9516	0.0378	0.4138	0.0398	0.4349	0.0184	0.0003	-0.0228	0.0163	-1.2374
22	0.0	-3.70	0.8876	0.0387	0.3891	0.0436	0.4384	0.0173	0.0002	-0.0234	0.0130	-1.3546
23	0.0	-2.83	0.8238	0.0387	0.3625	0.0469	0.4400	0.0172	0.0005	-0.0233	0.0262	-1.3528
24	0.0	-2.06	0.7391	0.0382	0.3377	0.0517	0.4569	0.0173	0.0004	-0.0235	0.0217	-1.3604
25	0.0	-1.25	0.6618	0.0376	0.3074	0.0568	0.4645	0.0176	0.0004	-0.0247	0.0213	-1.4054
26	0.01	-0.45	0.5912	0.0370	0.2798	0.0626	0.4733	0.0289	0.0015	-0.0190	0.0519	-0.6564
27	0.0	0.34	0.5211	0.0351	0.2529	0.0674	0.4853	0.0172	0.0005	-0.0235	0.0305	-1.3645
28	0.0	1.09	0.4274	0.0336	0.2215	0.0787	0.5191	0.0211	0.0008	-0.0237	0.0356	-1.1218
29	0.01	1.87	0.3537	0.0294	0.1898	0.0830	0.5366	0.0247	0.0011	-0.0225	0.0425	-0.9097
30	0.01	2.63	0.2575	0.0245	0.1646	0.0950	0.6390	0.0284	0.0014	-0.0221	0.0476	-0.7795
31	0.01	3.39	0.2080	0.0190	0.1397	0.0913	0.6714	0.0280	0.0015	-0.0207	0.0536	-0.7382
32	0.01	4.19	0.1324	0.0118	0.1120	0.0891	0.8464	0.0224	0.0010	-0.0240	0.0436	-1.0730
33	0.01	4.99	0.0602	0.0041	0.0835	0.0873	1.3864	0.0281	0.0017	-0.0211	0.0588	-0.7522
34	0.01	5.82	0.0038	-0.0020	0.0610	-0.5332	16.0437	0.0287	0.0011	-0.0235	0.0392	-0.8201
35	0.01	6.61	-0.0452	-0.0084	0.0376	0.1860	-0.8305	0.0239	0.0002	-0.0245	0.0094	-1.0266
36	0.01	7.43	-0.1153	-0.0164	0.0136	0.1427	-0.1182	0.0306	0.0007	-0.0204	0.0221	-0.6668
37	0.01	8.21	-0.1907	-0.0248	-0.0055	0.1299	0.0289	0.0256	0.0007	-0.0212	0.0264	-0.8269
38	0.01	9.06	-0.2559	-0.0333	-0.0246	0.1303	0.0963	0.0327	0.0012	-0.0187	0.0367	-0.5720
39	0.01	9.84	-0.3170	-0.0423	-0.0486	0.1336	0.1533	0.0257	0.0007	-0.0212	0.0263	-0.8263
40	0.01	10.67	-0.3776	-0.0512	-0.0743	0.1356	0.1968	0.0225	0.0005	-0.0239	0.0200	-1.0623
41	0.01	11.45	-0.4491	-0.0582	-0.0969	0.1296	0.2158	0.0364	0.0015	-0.0178	0.0412	-0.4882
42	0.01	12.26	-0.5366	-0.0665	-0.1258	0.1238	0.2344	0.0371	0.0020	-0.0155	0.0526	-0.4188
43	0.02	13.03	-0.6106	-0.0716	-0.1511	0.1172	0.2475	0.0373	0.0017	-0.0165	0.0463	-0.4416
44	0.02	13.81	-0.6777	-0.0763	-0.1800	0.1126	0.2656	0.0470	0.0027	-0.0140	0.0575	-0.2987
45	0.02	14.56	-0.7391	-0.0788	-0.2035	0.1067	0.2753	0.0340	0.0017	-0.0183	0.0486	-0.5374
46	0.02	15.35	-0.8167	-0.0820	-0.2271	0.1004	0.2781	0.0423	0.0026	-0.0158	0.0621	-0.3736

RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 106 1.05 1.7				0.0	82WOF13	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.02	16.11	-0.8808	-0.0835	-0.2542	0.0448	0.2886	0.0603	0.0056	-0.0055	0.0921	-0.0913	
48	0.02	16.89	-0.9329	-0.0848	-0.2727	0.0910	0.2924	0.0538	0.0043	-0.0100	0.0795	-0.1854	
49	0.02	17.72	-0.9886	-0.0863	-0.2909	0.0873	0.2943	0.0495	0.0039	-0.0135	0.0788	-0.2728	
50	0.02	18.55	-1.0415	-0.0865	-0.3170	0.0831	0.3044	0.0547	0.0053	-0.0086	0.0974	-0.1567	
51	0.03	19.39	-1.0714	-0.0867	-0.3273	0.0809	0.3055	0.0507	0.0040	-0.0129	0.0785	-0.2546	
52	0.02	20.16	-1.1310	-0.0834	-0.3533	0.0738	0.3123	0.0547	0.0047	-0.0080	0.0851	-0.1458	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		1.06	1.05	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-0.01	-19.88	1.5836	0.0018	0.5631	0.0011	0.3556	0.0014	-0.0013	-0.0003	-0.9113	-0.2382
2	-0.01	-19.55	1.5811	0.0018	0.5591	0.0011	0.3536	0.0031	-0.0029	-0.0007	-0.9199	-0.2152
3	-0.01	-18.79	1.5729	0.0031	0.5631	0.0020	0.3580	0.0024	-0.0023	-0.0005	-0.9381	-0.2085
4	0.0	-17.97	1.5753	0.0038	0.5569	0.0024	0.3535	0.0027	-0.0025	-0.0006	-0.9172	-0.2223
5	-0.01	-17.09	1.5560	0.0058	0.5509	0.0037	0.3540	0.0009	-0.0008	-0.0002	-0.9172	-0.2223
6	0.0	-16.32	1.5445	0.0081	0.5460	0.0053	0.3535	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
7	-0.01	-15.48	1.5259	0.0106	0.5435	0.0069	0.3562	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
8	-0.01	-14.71	1.5183	0.0125	0.5351	0.0082	0.3525	0.0010	-0.0009	-0.0003	-0.9006	-0.2668
9	0.0	-13.86	1.4831	0.0159	0.5253	0.0107	0.3542	0.0003	-0.0003	-0.0000	-1.0006	-0.0001
10	0.0	-13.04	1.4653	0.0185	0.5144	0.0127	0.3510	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
11	0.0	-12.25	1.4551	0.0218	0.5029	0.0150	0.3456	0.0012	-0.0011	-0.0003	-0.8755	-0.2501
12	0.0	-11.50	1.4329	0.0249	0.4911	0.0174	0.3427	0.0010	-0.0009	-0.0003	-0.9006	-0.2668
13	0.0	-10.73	1.4141	0.0315	0.4924	0.0222	0.3482	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
14	0.0	-9.99	1.4045	0.0338	0.4851	0.0241	0.3454	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
15	0.0	-9.18	1.3777	0.0361	0.4766	0.0262	0.3454	0.0004	-0.0004	-0.0001	-0.9381	-0.1668
16	0.0	-8.44	1.3985	0.0348	0.4590	0.0249	0.3568	0.0001	-0.0001	0.0000	-0.7505	0.3332
17	0.0	-7.63	1.3691	0.0327	0.4517	0.0239	0.3592	-0.0008	0.0008	0.0001	-0.9381	-0.1668
18	0.0	-6.84	1.3415	0.0331	0.4794	0.0247	0.3574	0.0001	-0.0001	0.0000	-0.7505	0.3332
19	0.0	-6.02	1.2753	0.0333	0.4573	0.0261	0.3586	-0.0001	0.0001	-0.0000	-0.7505	0.3332
20	0.0	-5.26	1.2145	0.0342	0.4386	0.0281	0.3596	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
21	0.01	-4.46	1.1596	0.0351	0.4129	0.0303	0.3561	-0.0011	0.0010	0.0002	-0.8869	-0.2122
22	0.0	-3.70	1.0980	0.0357	0.3861	0.0325	0.3516	-0.0010	0.0009	0.0002	-0.9006	-0.1668
23	0.0	-2.83	1.0299	0.0357	0.3593	0.0346	0.3489	-0.0010	0.0009	0.0002	-0.9006	-0.1668
24	0.0	-2.06	0.9699	0.0360	0.3355	0.0372	0.3463	-0.0019	0.0018	0.0004	-0.9480	-0.1931
25	0.0	-1.25	0.8980	0.0354	0.3078	0.0394	0.3428	-0.0025	0.0023	0.0006	-0.9006	-0.2268
26	0.01	-0.45	0.8233	0.0359	0.2756	0.0436	0.3347	-0.0024	0.0022	0.0005	-0.9066	-0.2085
27	0.0	0.34	0.7585	0.0344	0.2490	0.0453	0.3283	-0.0022	0.0020	0.0005	-0.9210	-0.2122
28	0.0	1.09	0.6821	0.0330	0.2202	0.0484	0.3228	-0.0024	0.0022	0.0005	-0.9068	-0.2085
29	0.01	1.87	0.6055	0.0305	0.1913	0.0511	0.3159	-0.0025	0.0023	0.0006	-0.9006	-0.2268
30	0.01	2.63	0.5353	0.0277	0.1611	0.0518	0.3009	-0.0028	0.0026	0.0006	-0.9113	-0.2025
31	0.01	3.39	0.4528	0.0235	0.1349	0.0519	0.2979	-0.0015	0.0014	0.0003	-0.9006	-0.2001
32	0.01	4.19	0.3686	0.0176	0.1082	0.0479	0.2936	-0.0020	0.0019	0.0003	-0.9381	-0.1668
33	0.01	4.99	0.3046	0.0125	0.0805	0.0412	0.2842	-0.0013	0.0011	0.0003	-0.8659	-0.2052
34	0.01	5.82	0.2492	0.0069	0.0543	0.0277	0.2180	0.0003	-0.0003	-0.0000	-1.0006	-0.0001
35	0.01	6.61	0.1805	0.0014	0.0296	0.0079	0.1641	0.0011	-0.0011	-0.0002	-0.9551	-0.2122
36	0.01	7.43	0.1271	-0.0032	0.0070	-0.0248	0.0553	0.0015	-0.0014	-0.0003	-0.9506	-0.2001
37	0.01	8.21	0.0538	-0.0054	-0.0152	-0.1744	-0.2820	0.0026	-0.0024	-0.0005	-0.9237	-0.2052
38	0.01	9.06	-0.0111	-0.0152	-0.0360	1.3657	3.2431	0.0032	-0.0030	-0.0006	-0.9381	-0.1980
39	0.01	9.84	-0.0725	-0.0219	-0.0579	0.3023	0.7980	0.0049	-0.0045	-0.0011	-0.9189	-0.2178
40	0.01	10.67	-0.1421	-0.0281	-0.0765	0.1977	0.5101	0.0067	-0.0067	-0.0015	-0.9185	-0.2190
41	0.01	11.45	-0.2059	-0.0339	-0.1000	0.1648	0.4858	0.0077	-0.0071	-0.0016	-0.9259	-0.2122
42	0.01	12.26	-0.2898	-0.0404	-0.1294	0.1394	0.4465	0.0095	-0.0088	-0.0020	-0.9243	-0.2142
43	0.02	13.03	-0.3725	-0.0452	-0.1539	0.1213	0.4133	0.0091	-0.0084	-0.0020	-0.9237	-0.2162
44	0.02	13.81	-0.4479	-0.0478	-0.1802	0.1068	0.4022	0.0107	-0.0098	-0.0023	-0.9188	-0.2182
45	0.02	14.56	-0.5007	-0.0484	-0.2054	0.0967	0.4102	0.0116	-0.0107	-0.0025	-0.9251	-0.2185
46	0.02	15.35	-0.5741	-0.0500	-0.2341	0.0871	0.4078	0.0106	-0.0098	-0.0023	-0.9275	-0.2140

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			106		1.05		1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YCPF3	CNF4	CH4	CB4	XC PF4	YCPF4			
47	0.02	16.11	-0.6390	-0.0496	-0.2619	0.0777	0.4098	0.0126	-0.0116	-0.0028	-0.9232	-0.2223			
48	0.02	16.89	-0.6859	-0.0502	-0.2804	0.0731	0.4088	0.0109	-0.0101	-0.0024	-0.9226	-0.2172			
49	0.02	17.72	-0.7452	-0.0495	-0.3063	0.0664	0.4111	0.0116	-0.0107	-0.0025	-0.9251	-0.2185			
50	0.02	18.55	-0.7952	-0.0497	-0.3236	0.0625	0.4069	0.0081	-0.0075	-0.0018	-0.9265	-0.2223			
51	0.03	19.39	-0.8610	-0.0485	-0.3483	0.0563	0.4046	0.0157	-0.0145	-0.0035	-0.9225	-0.2209			
52	0.02	20.16	-0.8970	-0.0472	-0.3612	0.0527	0.4027	0.0084	-0.0077	-0.0018	-0.9202	-0.2144			

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	107	1.10	1.7	0.0	82W0-13	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	-0.01	-20.04	0.0934	-0.3437	4.7277	-10.3493	-0.0270	0.6343	-3.6805		
2	0.0	-19.06	0.0624	-0.1363	4.7588	-10.4008	-0.0100	0.6438	-2.1853		
3	0.01	-18.88	0.0653	-0.1254	4.8791	-10.4142	-0.0090	0.6298	-1.9207		
4	0.0	-18.11	0.0262	-0.1057	4.3364	-10.1985	0.0	0.6422	-4.0336		
5	-0.01	-17.22	0.0665	-0.2611	4.2864	-10.2755	-0.0180	0.6149	-3.9263		
6	0.0	-16.45	0.0486	-0.2050	4.0357	-10.0844	-0.0140	0.6230	-4.2189		
7	-0.01	-15.61	0.0288	-0.1783	3.8624	-9.9378	-0.0030	0.6197	-6.1917		
8	0.0	-14.84	0.0279	-0.1680	3.7056	-9.8453	-0.0080	0.6184	-6.0237		
9	0.0	-14.00	0.0276	-0.0946	3.5631	-9.7248	-0.0060	0.6019	-3.4290		
10	0.0	-13.17	0.0530	-0.1542	3.4752	-9.5497	0.0020	0.6009	-2.9094		
11	0.0	-12.37	0.0349	-0.1488	3.2714	-9.3623	0.0100	0.6065	-4.2653		
12	0.0	-11.62	0.0556	-0.1278	3.1926	-9.2360	0.0080	0.5853	-2.2993		
13	0.0	-10.84	0.0340	-0.1136	3.1350	-9.4073	0.0410	0.5872	-3.3412		
14	0.0	-10.12	0.0210	-0.0464	3.0323	-9.3146	0.0050	0.5843	-2.2095		
15	0.0	-9.34	0.0331	-0.1533	2.7800	-9.0224	0.0230	0.5864	-4.6326		
16	0.0	-8.57	0.0339	-0.0784	2.7794	-8.9016	0.0260	0.5791	-2.3145		
17	0.0	-7.78	0.0358	-0.0671	2.5338	-8.5356	0.0070	0.5684	-1.8749		
18	0.01	-6.97	0.0259	-0.0213	2.4743	-8.2934	0.0070	0.5645	-0.8208		
19	0.0	-6.14	0.0469	-0.0966	2.3973	-8.0266	0.0030	0.5458	-2.0610		
20	0.01	-5.38	0.0425	-0.0765	2.1989	-7.6289	0.0060	0.5321	-1.8000		
21	0.01	-4.60	0.0336	-0.0320	1.9742	-7.1844	0.0040	0.5115	-0.9536		
22	0.01	-3.85	0.0376	-0.0486	1.8048	-6.8441	0.0010	0.5001	-1.2936		
23	0.01	-3.00	0.0364	-0.0570	1.7100	-6.4044	-0.0010	0.4883	-1.5648		
24	0.01	-2.21	0.0200	-0.0100	1.5342	-5.9444	0.0040	0.4768	-0.5000		
25	0.01	-1.39	0.0235	-0.0069	1.4044	-5.5707	0.0	0.4612	-0.2936		
26	0.01	-0.60	0.0384	-0.0268	1.2654	-5.2112	0.0010	0.4512	-0.6969		
27	0.01	0.16	0.0107	0.0270	1.1079	-4.6886	0.0020	0.4385	2.5252		
28	0.01	0.94	-0.0017	0.0854	0.8997	-4.1842	-0.0010	0.4367	-50.2235		
29	0.01	1.69	0.0383	-0.0006	0.7987	-3.8348	-0.0030	0.4208	-0.0162		
30	0.01	2.52	-0.0146	0.1684	0.6474	-3.2691	0.0	0.4025	-11.5370		
31	0.01	3.24	0.0091	0.0353	0.3952	-2.7741	-0.0010	0.3964	3.8747		
32	0.01	4.05	0.0172	0.0589	0.3711	-2.4672	-0.0020	0.3852	3.4236		
33	0.01	4.79	0.0244	0.0478	0.1344	-1.9529	0.0	0.3745	1.9607		
34	0.01	5.61	-0.0233	0.1596	-0.0302	-1.5635	0.0020	0.3737	-6.8506		
35	0.01	6.47	-0.0261	0.2005	-0.1574	-1.1405	0.0060	0.3632	-7.6835		
36	0.02	7.24	-0.0058	0.1571	-0.3525	-0.7304	0.0030	0.3469	-27.0847		
37	0.02	8.04	-0.0175	0.2405	-0.5772	-0.3767	0.0070	0.3424	-13.7429		
38	0.02	8.83	-0.0256	0.2388	-0.7355	0.0198	0.0080	0.3346	-9.3247		
39	0.02	9.69	-0.0171	0.2019	-0.8301	0.3582	-0.0010	0.3203	-11.8094		
40	0.02	10.49	-0.0048	0.1837	-0.9509	0.7883	-0.0030	0.3043	-38.2750		
41	0.02	11.24	-0.0330	0.2802	-1.2612	1.2578	-0.0070	0.2743	-8.4409		
42	0.02	12.08	0.0098	0.2273	-1.3805	1.6928	-0.0160	0.2625	23.1918		
43	0.02	12.85	-0.0406	0.2978	-1.5472	2.0001	-0.0210	0.2545	-7.3360		
44	0.02	13.61	-0.0156	0.2528	-1.6906	2.4328	-0.0240	0.2225	-16.2077		
45	0.02	14.38	-0.0019	0.2566	-1.9303	2.8125	-0.0300	0.1951	-135.0842		
46	0.02	15.15	-0.0379	0.3040	-2.2201	3.2631	-0.0300	0.1833	-8.0227		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAIL\$ EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		107		1.10 1.7		0.0	BZMUF13	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	0.02	15.90	-0.0067	0.2493	-2.4222	3.6160	-0.0290	0.1520	-37.2209				
48	0.03	16.69	-0.0469	0.3766	-2.5784	3.8767	-0.0340	0.1497	-8.0311				
49	0.03	17.50	-0.0236	0.3890	-2.8034	4.0558	-0.0280	0.1123	-16.4647				
50	0.02	18.37	-0.0401	0.2901	-2.8122	4.2161	-0.0310	0.1373	-7.2354				
51	0.03	19.15	-0.0778	0.5189	-3.2574	4.6883	-0.0130	0.0737	-6.6699				
52	0.03	19.93	-0.0557	0.4119	-3.3947	4.8095	-0.0310	0.0849	-7.3964				
53	0.03	19.75	-0.0053	0.3574	-3.3049	4.8078	-0.0310	0.0886	-67.4378				

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	107	1.10	1.7	0.0	82WOF13	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	-0.01	-20.04	1.5232	0.0023	0.5885	0.0015	0.3864	0.0737	0.0048	-0.0064	0.0652	-0.0874
2	0.0	-19.66	1.5352	0.0024	0.5924	0.0016	0.3859	0.0503	-0.0007	-0.0109	-0.0134	-0.2175
3	0.01	-18.88	1.5299	0.0037	0.5889	0.0024	0.3849	0.0607	0.0008	-0.0080	0.0124	-0.1314
4	0.0	-18.11	1.5007	0.0050	0.5790	0.0033	0.3858	0.0466	-0.0011	-0.0164	-0.0225	-0.3513
5	-0.01	-17.22	1.4841	0.0065	0.5711	0.0044	0.3848	0.0691	0.0076	-0.0092	0.1097	-0.1328
6	0.0	-16.45	1.4620	0.0090	0.5603	0.0062	0.3832	0.0542	0.0023	-0.0126	0.0429	-0.2332
7	-0.01	-15.61	1.4230	0.0119	0.5467	0.0083	0.3842	0.0363	-0.0017	-0.0200	-0.0476	-0.5511
8	0.0	-14.84	1.4062	0.0134	0.5408	0.0095	0.3846	0.0485	0.0003	-0.0144	0.0062	-0.2977
9	0.0	-14.00	1.3846	0.0168	0.5285	0.0121	0.3817	0.0469	-0.0020	-0.0174	-0.0432	-0.3704
10	0.0	-13.17	1.3539	0.0206	0.5197	0.0152	0.3838	0.0450	0.0013	-0.0213	0.0284	-0.4735
11	0.0	-12.37	1.3360	0.0250	0.5131	0.0187	0.3841	0.0361	0.0012	-0.0259	0.0333	-0.7166
12	0.0	-11.62	1.3142	0.0291	0.5100	0.0221	0.3880	0.0404	-0.0006	-0.0223	-0.0149	-0.5504
13	0.0	-10.84	1.3488	0.0283	0.5330	0.0210	0.3952	0.0263	-0.0016	-0.0255	-0.0599	-0.9672
14	0.0	-10.12	1.3140	0.0288	0.5267	0.0219	0.4008	0.0241	-0.0021	-0.0264	-0.0872	-1.0942
15	0.0	-9.34	1.2734	0.0282	0.5170	0.0222	0.4060	0.0136	-0.0005	-0.0303	-0.0386	-2.2256
16	0.0	-8.57	1.2491	0.0283	0.5104	0.0227	0.4086	0.0183	-0.0011	-0.0287	-0.0574	-1.5684
17	0.0	-7.78	1.1742	0.0304	0.4895	0.0259	0.4169	0.0142	-0.0006	-0.0328	-0.0423	-2.3076
18	0.01	-6.97	1.1300	0.0312	0.4736	0.0276	0.4191	0.0231	-0.0013	-0.0279	-0.0552	-1.2079
19	0.0	-6.14	1.0522	0.0337	0.4498	0.0320	0.4275	0.0254	-0.0014	-0.0273	-0.0532	-1.0723
20	0.01	-5.38	1.0009	0.0345	0.4332	0.0345	0.4328	0.0230	-0.0014	-0.0279	-0.0587	-1.2103
21	0.01	-4.60	0.9328	0.0357	0.4088	0.0383	0.4382	0.0253	-0.0012	-0.0272	-0.0475	-1.0739
22	0.01	-3.85	0.8636	0.0363	0.3867	0.0420	0.4478	0.0205	-0.0011	-0.0280	-0.0513	-1.3643
23	0.01	-3.00	0.7927	0.0358	0.3606	0.0452	0.4549	0.0292	0.0	-0.0233	0.0	-0.7969
24	0.01	-2.21	0.7327	0.0360	0.3419	0.0492	0.4666	0.0227	-0.0004	-0.0269	-0.0165	-1.1822
25	0.01	-1.39	0.6546	0.0345	0.3151	0.0528	0.4813	0.0178	-0.0008	-0.0272	-0.0464	-1.5263
26	0.01	-0.60	0.5931	0.0339	0.2903	0.0572	0.4894	0.0250	-0.0004	-0.0262	-0.0150	-1.0468
27	0.01	0.16	0.5102	0.0331	0.2615	0.0649	0.5134	0.0185	-0.0015	-0.0296	-0.0811	-1.5965
28	0.01	0.94	0.4347	0.0313	0.2272	0.0720	0.5226	0.0138	-0.0014	-0.0306	-0.1033	-2.2175
29	0.01	1.69	0.3578	0.0286	0.2062	0.0800	0.5762	0.0318	-0.0002	-0.0234	-0.0047	-0.7360
30	0.01	2.52	0.2768	0.0255	0.1772	0.0920	0.6402	0.0186	-0.0018	-0.0297	-0.0968	-1.5969
31	0.01	3.24	0.1960	0.0193	0.1433	0.0585	0.7309	0.0332	0.0001	-0.0245	-0.0023	-0.7361
32	0.01	4.05	0.1384	0.0140	0.1204	0.1013	0.8705	0.0291	-0.0009	-0.0276	-0.0309	-0.9488
33	0.01	4.74	0.0629	0.0071	0.0907	0.1133	1.4413	0.0368	0.0002	-0.0240	0.0041	-0.6505
34	0.01	5.61	0.0056	0.0008	0.0663	0.1474	11.8132	0.0297	-0.0012	-0.0249	-0.0404	-1.0069
35	0.01	6.47	-0.0642	-0.0062	0.0410	0.0970	-0.6387	0.0252	-0.0017	-0.0317	-0.0685	-1.2501
36	0.02	7.24	-0.1318	-0.0140	0.0173	0.1060	-0.1315	0.0292	-0.0012	-0.0277	-0.0411	-0.9476
37	0.02	8.04	-0.2009	-0.0222	-0.0028	0.1103	0.0140	0.0215	-0.0017	-0.0316	-0.0403	-1.4668
38	0.02	8.83	-0.2596	-0.0316	-0.0258	0.1218	0.0093	0.0220	-0.0019	-0.0316	-0.0413	-1.5759
39	0.02	9.69	-0.3054	-0.0393	-0.0468	0.1288	0.1533	0.0312	-0.0009	-0.0258	-0.0289	-0.8270
40	0.02	10.49	-0.3744	-0.0466	-0.0674	0.1243	0.1001	0.0314	-0.0008	-0.0268	-0.0263	-0.8515
41	0.02	11.24	-0.4517	-0.0549	-0.0990	0.1215	0.2192	0.0261	-0.0021	-0.0297	-0.0805	-1.1380
42	0.02	12.08	-0.5260	-0.0617	-0.1235	0.1173	0.2349	0.0330	-0.0011	-0.0281	-0.0318	-0.8516
43	0.02	12.85	-0.5914	-0.0668	-0.1477	0.1130	0.2498	0.0323	-0.0011	-0.0252	-0.0349	-0.7782
44	0.02	13.61	-0.6654	-0.0713	-0.1711	0.1072	0.2571	0.0397	0.0005	-0.0207	0.0113	-0.5207
45	0.02	14.38	-0.7416	-0.0756	-0.1979	0.1020	0.2668	0.0402	0.0001	-0.0221	0.0019	-0.5499
46	0.02	15.15	-0.8105	-0.0774	-0.2269	0.0955	0.2799	0.0398	0.0001	-0.0207	0.0019	-0.5211

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART NACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 107 1.10 1.7 0.0 B2WOF13 0.0 10 0 10 0 FIXED

POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	15.90	-0.8516	-0.0791	-0.2437	0.0929	0.2862	0.0541	0.0015	-0.0133	0.0277	-0.2453
48	0.03	16.69	-0.9128	-0.0803	-0.2624	0.0880	0.2875	0.0457	0.0004	-0.0194	0.0082	-0.4239
49	0.03	17.50	-0.9460	-0.0821	-0.2742	0.0868	0.2899	0.0657	0.0033	-0.0100	0.0503	-0.1523
50	0.02	18.37	-1.0224	-0.0813	-0.3032	0.0795	0.2966	0.0442	0.0012	-0.0183	0.0272	-0.4134
51	0.03	19.15	-1.0367	-0.0827	-0.3145	0.0798	0.3034	0.0480	0.0015	-0.0186	0.0313	-0.3876
52	0.03	19.93	-1.0887	-0.0820	-0.3355	0.0753	0.3081	0.0504	0.0016	-0.0129	0.0313	-0.2561
53	0.03	19.75	-1.0790	-0.0829	-0.3348	0.0768	0.3103	0.0622	0.0035	-0.0111	0.0567	-0.1780

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	107	1.10	1.7	0.0	B2WOF13	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCFF3	YCPF3	CNF4	CH4	C84	XCFF4	YCPF4
1	-0.01	-20.04	1.6330	0.0028	0.5834	0.0017	0.3572	0.0051	-0.0047	-0.0011	-0.9270	-0.2158
2	0.0	-19.66	1.6330	0.0026	0.5834	0.0016	0.3572	0.0065	-0.0060	-0.0014	-0.9237	-0.2206
3	0.01	-18.88	1.6316	0.0035	0.5799	0.0022	0.3554	0.0059	-0.0055	-0.0012	-0.9285	-0.2092
4	0.0	-18.11	1.6057	0.0043	0.5690	0.0027	0.3543	0.0042	-0.0042	-0.0010	-0.9339	-0.2223
5	-0.01	-17.22	1.5924	0.0077	0.5663	0.0049	0.3556	0.0053	-0.0049	-0.0011	-0.9204	-0.2140
6	0.0	-16.45	1.5662	0.0098	0.5567	0.0063	0.3554	0.0059	-0.0054	-0.0013	-0.9158	-0.2261
7	-0.01	-15.61	1.5492	0.0113	0.5441	0.0073	0.3512	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
8	0.0	-14.84	1.5222	0.0134	0.5372	0.0088	0.3529	0.0050	-0.0046	-0.0011	-0.9156	-0.2268
9	0.0	-14.00	1.4972	0.0163	0.5241	0.0109	0.3501	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
10	0.0	-13.17	1.4797	0.0190	0.5127	0.0128	0.3465	0.0029	-0.0027	-0.0006	-0.9316	-0.2185
11	0.0	-12.37	1.4520	0.0233	0.5036	0.0160	0.3469	0.0029	-0.0027	-0.0006	-0.9316	-0.2185
12	0.0	-11.62	1.4449	0.0283	0.4992	0.0196	0.3455	0.0045	-0.0042	-0.0010	-0.9339	-0.2223
13	0.0	-10.84	1.4422	0.0315	0.5037	0.0218	0.3492	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
14	0.0	-10.12	1.4641	0.0278	0.5203	0.0190	0.3554	0.0036	-0.0033	-0.0008	-0.9172	-0.2223
15	0.0	-9.34	1.4168	0.0289	0.5059	0.0204	0.3571	0.0004	-0.0004	-0.0001	-0.9381	-0.1668
16	0.0	-8.57	1.3920	0.0279	0.4578	0.0201	0.3577	0.0033	-0.0031	-0.0007	-0.9324	-0.2122
17	0.0	-7.78	1.3564	0.0276	0.4859	0.0204	0.3582	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
18	0.01	-6.97	1.3091	0.0287	0.4671	0.0219	0.3568	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
19	0.0	-6.14	1.2761	0.0302	0.4507	0.0237	0.3532	-0.0010	0.0010	0.0002	-0.9156	-0.1668
20	0.01	-5.38	1.2140	0.0315	0.4290	0.0260	0.3534	-0.0001	0.0001	-0.0000	-0.7505	-0.3332
21	0.01	-4.60	1.1723	0.0315	0.4040	0.0269	0.3447	0.0005	-0.0005	-0.0001	-1.0507	-0.2668
22	0.01	-3.85	1.1094	0.0324	0.3843	0.0292	0.3464	-0.0003	0.0003	0.0000	-1.0006	-0.0001
23	0.01	-3.00	1.0427	0.0328	0.3551	0.0315	0.3406	-0.0014	0.0014	0.0002	-0.9649	-0.1668
24	0.01	-2.21	0.9769	0.0334	0.3300	0.0342	0.3378	0.0001	-0.0001	-0.0001	-0.7505	-0.6668
25	0.01	-1.39	0.9133	0.0330	0.3055	0.0361	0.3345	-0.0002	0.0002	0.0000	-0.7505	-0.1668
26	0.01	-0.60	0.8513	0.0326	0.2803	0.0383	0.3292	-0.0002	0.0002	0.0000	-1.1257	-0.1668
27	0.01	0.16	0.7791	0.0319	0.2491	0.0410	0.3197	0.0010	-0.0010	-0.0002	-0.9756	-0.1668
28	0.01	0.94	0.7041	0.0303	0.2193	0.0430	0.3115	0.0005	-0.0005	-0.0001	-1.0507	-0.2668
29	0.01	1.69	0.6352	0.0297	0.1937	0.0467	0.3049	-0.0001	0.0001	-0.0000	-0.7505	-0.3332
30	0.01	2.52	0.5542	0.0276	0.1615	0.0499	0.2913	0.0015	-0.0014	-0.0003	-0.9006	-0.2001
31	0.01	3.24	0.4748	0.0242	0.1324	0.0509	0.2788	-0.0003	0.0003	0.0000	-1.0006	-0.0001
32	0.01	4.05	0.4113	0.0203	0.1073	0.0495	0.2610	0.0005	-0.0005	-0.0001	-1.0507	-0.2668
33	0.01	4.79	0.3529	0.0143	0.0765	0.0429	0.2298	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
34	0.01	5.61	0.2698	0.0083	0.0509	0.0306	0.1886	0.0031	-0.0029	-0.0007	-0.9199	-0.2152
35	0.01	6.47	0.1963	0.0032	0.0231	0.0161	0.1176	0.0036	-0.0033	-0.0008	-0.9172	-0.2223
36	0.02	7.24	0.1432	-0.0004	0.0044	-0.0026	0.0306	0.0035	-0.0032	-0.0007	-0.9220	-0.2096
37	0.02	8.04	0.0889	-0.0068	-0.0167	-0.0091	-0.2415	0.0044	-0.0041	-0.0009	-0.9210	-0.2122
38	0.02	8.83	0.0228	-0.0126	-0.0386	-0.0530	-1.6931	0.0053	-0.0049	-0.0011	-0.9204	-0.2140
39	0.02	9.69	-0.0431	-0.0194	-0.0509	0.4492	1.3657	0.0066	-0.0062	-0.0014	-0.9324	-0.2122
40	0.02	10.49	-0.0999	-0.0239	-0.0780	0.2391	0.7811	0.0084	-0.0077	-0.0018	-0.9202	-0.2144
41	0.02	11.24	-0.1651	-0.0305	-0.1041	0.1647	0.5624	0.0088	-0.0082	-0.0019	-0.9296	-0.2122
42	0.02	12.08	-0.2403	-0.0343	-0.1256	0.1428	0.5226	0.0122	-0.0113	-0.0026	-0.9227	-0.2160
43	0.02	12.85	-0.3119	-0.0386	-0.1474	0.1238	0.4728	0.0100	-0.0093	-0.0022	-0.9306	-0.2168
44	0.02	13.61	-0.3889	-0.0408	-0.1741	0.1048	0.4477	0.0106	-0.0098	-0.0024	-0.9204	-0.2234
45	0.02	14.38	-0.4608	-0.0430	-0.2022	0.0932	0.4388	0.0105	-0.0097	-0.0023	-0.9220	-0.2192
46	0.02	15.15	-0.5298	-0.0433	-0.2317	0.0818	0.4373	0.0119	-0.0110	-0.0026	-0.9270	-0.2214

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 107 1.10 1.7												
PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 82WOF13 0.0 10 0 10 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	15.90	-0.5815	-0.0439	-0.2555	0.0755	0.4394	0.0119	-0.0110	-0.0025	-0.9270	-0.2130
48	0.03	16.69	-0.6328	-0.0433	-0.2762	0.0683	0.4365	0.0121	-0.0112	-0.0027	-0.9241	-0.2205
49	0.03	17.50	-0.7149	-0.0417	-0.3030	0.0583	0.4239	0.0193	-0.0179	-0.0042	-0.9254	-0.2160
50	0.02	18.37	-0.7400	-0.0432	-0.3162	0.0583	0.4273	0.0064	-0.0059	-0.0014	-0.9264	-0.2137
51	0.03	19.15	-0.7916	-0.0409	-0.3422	0.0517	0.4323	0.0160	-0.0167	-0.0039	-0.9256	-0.2168
52	0.03	19.93	-0.8266	-0.0414	-0.3546	0.0501	0.4290	0.0083	-0.0077	-0.0018	-0.9223	-0.2210
53	0.03	19.75	-0.8423	-0.0407	-0.3605	0.0483	0.4280	0.0117	-0.0108	-0.0025	-0.9237	-0.2138

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	OEL4	TRANSITION
6	108	0.85	1.7	0.0	82WUF13	0.0	20	0	20	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.0	19.73	-0.0363	0.1258	-1.9567	0.4557	-0.0430	-0.0905	-3.4661		
2	0.0	19.37	-0.0129	0.1020	-1.9549	0.2782	-0.0420	-0.0840	-7.9116		
3	0.0	18.66	0.0201	-0.0151	-1.8140	0.1699	-0.0570	-0.0757	-0.7532		
4	0.01	17.87	0.0093	0.1130	-1.6817	-0.0633	-0.0470	-0.0490	12.1484		
5	0.0	17.01	0.0235	-0.0009	-1.5682	-0.3992	-0.0700	-0.0079	-0.0383		
6	0.0	16.24	0.0052	0.0607	-1.3433	-0.6760	-0.0580	0.0211	11.6769		
7	0.0	15.43	-0.0049	0.0719	-1.2069	-0.9161	-0.0590	0.0461	-7.2586		
8	0.0	14.68	-0.0027	0.0288	-1.0029	-1.3126	-0.0510	0.0817	-10.6573		
9	0.0	13.88	-0.0249	0.0818	-0.8340	-1.5511	-0.0430	0.1126	-3.2875		
10	0.0	13.11	-0.0006	0.0308	-0.6576	-1.8150	-0.0440	0.1319	-51.4000		
11	0.0	12.32	-0.0105	0.0547	-0.5546	-2.1421	-0.0320	0.1528	-5.2095		
12	0.0	11.57	-0.0125	0.0245	-0.3706	-2.4898	-0.0290	0.1850	-1.9600		
13	0.0	10.76	-0.0061	0.0045	-0.1903	-2.9252	-0.0300	0.2155	-0.7443		
14	0.0	9.96	-0.0039	-0.0475	0.0073	-3.3608	-0.0260	0.2490	12.1897		
15	0.0	9.13	0.0112	-0.0647	0.1810	-3.8519	-0.0180	0.2861	-5.7750		
16	0.0	8.34	0.0051	-0.0841	0.3346	-4.2309	-0.0170	0.3131	-16.4980		
17	-0.01	7.51	0.0049	-0.1078	0.4955	-4.6312	-0.0130	0.3544	-22.0122		
18	-0.01	6.75	0.0123	-0.1212	0.6105	-4.8702	-0.0080	0.3826	-9.8553		
19	-0.01	5.92	0.0301	-0.1751	0.6725	-5.0520	-0.0160	0.4077	-5.8186		
20	-0.01	5.12	0.0262	-0.1797	0.7996	-5.2249	-0.0110	0.4365	-6.8580		
21	-0.01	4.29	0.0320	-0.2128	0.9058	-5.4006	0.0	0.4611	-6.6500		
22	-0.01	3.55	0.0425	-0.2245	0.9878	-5.5803	0.0100	0.4880	-5.2823		
23	-0.01	2.82	0.0377	-0.2377	1.0626	-5.6730	0.0120	0.5060	-6.3072		
24	-0.01	2.01	0.0415	-0.2491	1.1531	-5.7589	0.0070	0.5240	-6.0024		
25	-0.01	1.25	0.0320	-0.1958	1.2415	-5.8836	0.0060	0.5488	-6.1187		
26	-0.01	0.49	0.0383	-0.2256	1.3192	-6.0384	0.0060	0.5693	-5.8909		
27	-0.01	-0.24	0.0416	-0.2212	1.3888	-6.1818	0.0070	0.5850	-5.3183		
28	-0.01	-1.08	0.0370	-0.2278	1.5200	-6.3884	0.0040	0.5996	-6.1568		
29	-0.01	-1.85	0.0583	-0.2776	1.5722	-6.4935	0.0090	0.6165	-4.7619		
30	-0.01	-2.66	0.0272	-0.2081	1.6737	-6.4736	0.0120	0.6326	-7.6500		
31	-0.01	-3.46	0.0431	-0.2643	1.6413	-6.3143	0.0320	0.6429	-6.1332		
32	-0.02	-4.28	0.1476	-0.6306	1.5900	-5.7715	0.0730	0.6425	-4.2726		
33	-0.01	-5.02	0.1244	-0.5161	1.6219	-5.6302	0.0560	0.6462	-4.1492		
34	-0.01	-5.78	0.0534	-0.2877	1.6172	-5.4186	0.0300	0.6448	-5.3888		
35	-0.01	-6.57	0.0366	-0.2032	1.6856	-5.4334	0.0180	0.6468	-5.5530		
36	-0.01	-7.40	0.0491	-0.2217	1.7227	-5.4004	0.0200	0.6442	-4.5161		
37	-0.01	-8.17	0.0240	-0.1816	1.7711	-5.4581	0.0180	0.6459	-7.5667		
38	-0.01	-8.97	0.0480	-0.2947	1.8406	-5.5004	0.0180	0.6406	-6.1772		
39	-0.01	-9.73	0.0165	-0.1511	1.9635	-5.6686	0.0140	0.6370	-9.1576		
40	-0.01	-10.53	0.0302	-0.1793	2.1061	-5.7842	0.0080	0.6320	-5.9364		
41	0.0	-11.27	0.0052	-0.0733	2.1888	-5.9250	0.0020	0.6441	-14.0923		
42	0.0	-12.05	0.0276	-0.1166	2.3390	-6.0862	0.0010	0.6451	-4.3348		
43	-0.01	-12.83	0.0102	-0.1233	2.4131	-6.2189	0.0030	0.6503	-12.0863		
44	-0.01	-13.63	-0.0101	-0.0619	2.5451	-6.3667	0.0030	0.6620	6.1248		
45	0.0	-14.45	-0.0012	-0.0483	2.6446	-6.4440	-0.0050	0.6699	40.2667		
46	0.0	-15.28	-0.0032	-0.0495	2.7764	-6.6366	-0.0170	0.6766	15.4750		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 108 0.85 1.7 0.0 B2WOF13 0.0 20 0 20 0 FIXED

POINT	ALPHA'	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	-0.01	-16.11	0.0029	-0.0890	2.8941	-6.7744	-0.0060	0.6814	-30.7103
48	0.0	-16.90	0.0284	-0.1017	3.0450	-6.9167	0.0040	0.6863	-3.5831
49	0.0	-17.78	0.0022	-0.0341	3.1719	-7.0623	-0.0040	0.6873	-15.4909
50	0.0	-18.63	0.0155	-0.0937	3.2563	-7.1384	0.0	0.6826	-6.0452
51	0.0	-19.48	0.0425	-0.0915	3.4739	-7.3572	0.0010	0.6754	-2.1529
52	0.0	-20.25	0.0432	-0.1225	3.5759	-7.4940	0.0080	0.6770	-2.8352

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	108	0.85	1.7	0.0	82	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CL1	XCPF1	YCPF1	CNF2	CH2	CL2	XCPF2	YCPF2
1	0.0	19.73	-0.3109	-0.0670	-0.1075	0.2155	0.3458	0.0759	0.0	-0.0086	0.0	-0.1134
2	0.0	19.37	-0.2982	-0.0650	-0.1034	0.2181	0.3466	0.0085	0.0010	-0.0009	0.1148	-0.1021
3	0.0	18.66	-0.2775	-0.0612	-0.0540	0.2206	0.3386	0.0068	0.0011	-0.0006	0.1545	-0.0933
4	0.01	17.87	-0.2206	-0.0534	-0.0838	0.2420	0.3799	0.0066	0.0020	-0.0005	0.2956	-0.0759
5	0.0	17.01	-0.1831	-0.0440	-0.0661	0.2403	0.3611	-0.0053	0.0008	0.0007	-0.1558	-0.1385
6	0.0	16.24	-0.1230	-0.0333	-0.0493	0.2705	0.4007	-0.0053	0.0013	0.0007	-0.2407	-0.1385
7	0.0	15.43	-0.0545	-0.0224	-0.0295	0.4103	0.5406	-0.0020	0.0020	0.0004	-0.9756	-0.2168
8	0.0	14.68	0.0054	-0.0128	-0.0127	-2.3626	-2.3520	-0.0004	0.0026	0.0004	-6.5666	-0.9168
9	0.0	13.88	0.0653	-0.0038	0.0011	-0.0586	0.0162	-0.0122	0.0014	0.0015	-0.1169	-0.1258
10	0.0	13.11	0.1158	0.0035	0.0166	0.0305	0.1431	-0.0175	0.0020	0.0023	-0.1115	-0.1296
11	0.0	12.32	0.1922	0.0131	0.0369	0.0680	0.1921	-0.0243	0.0014	0.0029	-0.0587	-0.1195
12	0.0	11.57	0.2546	0.0202	0.0581	0.0793	0.2283	-0.0243	0.0019	0.0030	-0.0772	-0.1236
13	0.0	10.76	0.3272	0.0282	0.0793	0.0861	0.2424	-0.0278	0.0016	0.0033	-0.0567	-0.1200
14	0.0	9.96	0.3889	0.0359	0.1056	0.0923	0.2715	-0.0348	0.0017	0.0042	-0.0496	-0.1208
15	0.0	9.13	0.4734	0.0429	0.1310	0.0506	0.2768	-0.0382	0.0008	0.0045	-0.0216	-0.1170
16	0.0	8.34	0.5539	0.0480	0.1512	0.0866	0.2729	-0.0349	0.0018	0.0042	-0.0516	-0.1195
17	-0.01	7.51	0.6169	0.0519	0.1756	0.0841	0.2846	-0.0417	0.0004	0.0048	-0.0090	-0.1152
18	-0.01	6.75	0.6592	0.0547	0.1866	0.0830	0.2831	-0.0452	0.0	0.0051	0.0	-0.1137
19	-0.01	5.92	0.7074	0.0568	0.1931	0.0804	0.2730	-0.0366	0.0008	0.0042	-0.0205	-0.1149
20	-0.01	5.12	0.7405	0.0583	0.2015	0.0788	0.2727	-0.0349	0.0009	0.0041	-0.0258	-0.1166
21	-0.01	4.29	0.8028	0.0603	0.2184	0.0751	0.2720	-0.0295	-0.0002	0.0034	0.0076	-0.1142
22	-0.01	3.55	0.8400	0.0601	0.2292	0.0716	0.2728	-0.0346	-0.0011	0.0039	0.0325	-0.1119
23	-0.01	2.82	0.8674	0.0577	0.2367	0.0665	0.2729	-0.0243	0.0	0.0028	0.0	-0.1153
24	-0.01	2.01	0.8815	0.0532	0.2400	0.0604	0.2723	-0.0243	0.0005	0.0028	-0.0216	-0.1153
25	-0.01	1.25	0.9138	0.0475	0.2465	0.0519	0.2697	-0.0345	-0.0010	0.0038	0.0283	-0.1103
26	-0.01	0.49	0.9495	0.0443	0.2590	0.0467	0.2727	-0.0260	-0.0001	0.0029	0.0029	-0.1129
27	-0.01	-0.24	0.9958	0.0423	0.2662	0.0425	0.2673	-0.0292	-0.0016	0.0032	0.0540	-0.1086
28	-0.01	-1.08	1.0188	0.0393	0.2770	0.0385	0.2719	-0.0292	-0.0013	0.0032	0.0437	-0.1086
29	-0.01	-1.85	1.0594	0.0374	0.2824	0.0353	0.2665	-0.0226	0.0005	0.0027	-0.0232	-0.1181
30	-0.01	-2.66	1.0596	0.0356	0.2860	0.0336	0.2699	-0.0346	-0.0005	0.0039	0.0152	-0.1119
31	-0.01	-3.46	1.0497	0.0334	0.2860	0.0337	0.2725	-0.0345	-0.0011	0.0038	0.0305	-0.1103
32	-0.02	-4.28	1.0495	0.0348	0.2861	0.0332	0.2726	-0.0328	0.0013	-0.0036	0.0389	-0.1089
33	-0.01	-5.02	0.9939	0.0349	0.2604	0.0351	0.2610	0.0086	0.0007	-0.0009	0.0785	-0.1086
34	-0.01	-5.78	0.9274	0.0341	0.2495	0.0368	0.2690	-0.0189	-0.0007	0.0020	0.0357	-0.1059
35	-0.01	-6.57	0.9404	0.0343	0.2487	0.0365	0.2643	-0.0190	-0.0004	0.0022	0.0197	-0.1142
36	-0.01	-7.40	0.9403	0.0342	0.2511	0.0364	0.2670	-0.0241	-0.0009	0.0027	0.0374	-0.1108
37	-0.01	-8.17	0.9624	0.0342	0.2580	0.0356	0.2680	-0.0190	-0.0008	0.0021	0.0395	-0.1089
38	-0.01	-8.97	0.9866	0.0333	0.2662	0.0338	0.2698	-0.0103	-0.0007	0.0011	0.0656	-0.1037
39	-0.01	-9.73	0.9959	0.0333	0.2670	0.0335	0.2681	-0.0416	-0.0003	0.0047	0.0072	-0.1139
40	-0.01	-10.53	1.0223	0.0327	0.2724	0.0320	0.2665	-0.0295	-0.0002	0.0034	0.0051	-0.1142
41	0.0	-11.27	1.0318	0.0318	0.2816	0.0309	0.2729	-0.0417	0.0	0.0047	0.0	-0.1128
42	0.0	-12.05	1.0504	0.0312	0.2866	0.0297	0.2728	-0.0347	0.0004	0.0039	-0.0108	-0.1135
43	-0.01	-12.83	1.0763	0.0297	0.2955	0.0276	0.2746	-0.0417	0.0002	0.0047	-0.0036	-0.1128
44	-0.01	-13.63	1.0969	0.0291	0.3010	0.0265	0.2744	-0.0591	0.0002	0.0067	-0.0025	-0.1135
45	0.0	-14.45	1.1276	0.0278	0.3041	0.0246	0.2697	-0.0348	0.0015	0.0041	-0.0431	-0.1179
46	0.0	-15.28	1.1421	0.0269	0.3124	0.0233	0.2736	-0.0194	0.0026	0.0025	-0.1315	-0.1307

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 108 0.85 1.7 0.0 82NOF13 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	-0.01	-16.11	1.1810	0.0248	0.3222	0.0210	0.2728	-0.0313	0.0018	0.0038	-0.0575	-0.1205
48	0.0	-16.90	1.2004	0.0233	0.3301	0.0194	0.2750	-0.0538	0.0032	0.0065	-0.0586	-0.1203
49	0.0	-17.78	1.2245	0.0219	0.3376	0.0178	0.2757	-0.0524	0.0059	0.0066	-0.1117	-0.1267
50	0.0	-18.63	1.2362	0.0206	0.3418	0.0167	0.2765	-0.0716	0.0076	0.0090	-0.1059	-0.1263
51	0.0	-19.48	1.2551	0.0187	0.3514	0.0149	0.2800	-0.0697	0.0065	0.0087	-0.0937	-0.1245
52	0.0	-20.25	1.2990	0.0167	0.3589	0.0128	0.2763	-0.0825	0.0113	0.0107	-0.1364	-0.1298

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RAIO-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	108	0.85	1.7	0.0	B2M0F13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	LB3	XLPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.0	19.73	-0.3123	-0.0555	-0.0636	0.1777	0.2038	0.0044	-0.0041	-0.0009	-0.9210	-0.2122
2	0.0	19.37	-0.3036	-0.0549	-0.0635	0.1808	0.2106	0.0047	-0.0043	-0.0010	-0.9101	-0.2200
3	0.0	18.66	-0.2745	-0.0488	-0.0521	0.1778	0.1896	0.0021	-0.0019	-0.0005	-0.8934	-0.2362
4	0.01	17.87	-0.2238	-0.0414	-0.0411	0.1848	0.1835	0.0051	-0.0047	-0.0011	-0.9270	-0.2158
5	0.0	17.01	-0.1521	-0.0313	-0.0206	0.2055	0.1352	0.0039	-0.0036	-0.0008	-0.9237	-0.2052
6	0.0	16.24	-0.1117	-0.0243	-0.0060	0.2179	0.0536	0.0036	-0.0034	-0.0008	-0.9381	-0.2223
7	0.0	15.43	-0.0608	-0.0152	0.0138	0.2506	-0.2276	0.0063	-0.0058	-0.0014	-0.9172	-0.2223
8	0.0	14.68	0.0047	-0.0069	0.0283	-1.4690	6.0141	0.0055	-0.0050	-0.0012	-0.9142	-0.2122
9	0.0	13.88	0.0347	-0.0001	0.0460	-0.0022	1.3246	0.0050	-0.0047	-0.0010	-0.9306	-0.2068
10	0.0	13.11	0.1005	0.0093	0.0686	0.0927	0.6828	0.0051	-0.0047	-0.0011	-0.9270	-0.2158
11	0.0	12.32	0.1588	0.0152	0.0875	0.0955	0.5538	0.0039	-0.0036	-0.0008	-0.9237	-0.2052
12	0.0	11.57	0.2074	0.0212	0.1101	0.1025	0.5310	0.0029	-0.0026	-0.0006	-0.9057	-0.2185
13	0.0	10.76	0.2797	0.0291	0.1383	0.1042	0.4946	0.0024	-0.0022	-0.0005	-0.9068	-0.2085
14	0.0	9.96	0.3527	0.0357	0.1636	0.1013	0.4640	0.0003	-0.0003	-0.0001	-1.0006	-0.3335
15	0.0	9.13	0.4268	0.0410	0.1876	0.0961	0.4394	-0.0004	0.0004	0.0001	-0.9381	-0.1668
16	0.0	8.34	0.4997	0.0441	0.2122	0.0862	0.4247	-0.0019	0.0018	0.0004	-0.9480	-0.1931
17	-0.01	7.51	0.5548	0.0475	0.2340	0.0857	0.4218	-0.0022	0.0021	0.0005	-0.9551	-0.2122
18	-0.01	6.75	0.5827	0.0489	0.2464	0.0834	0.4228	-0.0034	0.0032	0.0007	-0.9270	-0.1962
19	-0.01	5.92	0.6250	0.0506	0.2566	0.0810	0.4105	-0.0028	0.0026	0.0006	-0.9113	-0.2025
20	-0.01	5.12	0.6636	0.0511	0.2636	0.0771	0.3973	-0.0048	0.0044	0.0010	-0.9224	-0.2085
21	-0.01	4.29	0.6783	0.0502	0.2666	0.0741	0.3731	-0.0038	0.0035	0.0007	-0.9282	-0.1931
22	-0.01	3.55	0.7016	0.0485	0.2722	0.0691	0.3880	-0.0046	0.0042	0.0010	-0.9136	-0.2103
23	-0.01	2.82	0.7144	0.0438	0.2763	0.0613	0.3867	-0.0053	0.0049	0.0010	-0.9204	-0.1951
24	-0.01	2.01	0.7455	0.0364	0.2837	0.0488	0.3806	-0.0057	0.0053	0.0011	-0.9216	-0.1931
25	-0.01	1.25	0.7695	0.0333	0.2934	0.0432	0.3813	-0.0046	0.0042	0.0010	-0.9136	-0.2103
26	-0.01	0.49	0.8003	0.0315	0.3072	0.0393	0.3838	-0.0053	0.0049	0.0010	-0.9204	-0.1951
27	-0.01	-0.24	0.8301	0.0294	0.3145	0.0355	0.3789	-0.0053	0.0049	0.0010	-0.9204	-0.1951
28	-0.01	-1.08	0.8522	0.0273	0.3285	0.0320	0.3855	-0.0041	0.0038	0.0006	-0.9152	-0.2034
29	-0.01	-1.85	0.8753	0.0261	0.3314	0.0298	0.3786	-0.0057	0.0052	0.0012	-0.9085	-0.2106
30	-0.01	-2.66	0.8634	0.0255	0.3326	0.0296	0.3852	-0.0038	0.0035	0.0007	-0.9282	-0.1931
31	-0.01	-3.46	0.8324	0.0260	0.3166	0.0312	0.3806	-0.0025	0.0023	0.0006	-0.9006	-0.2268
32	-0.02	-4.28	0.6902	0.0273	0.2697	0.0395	0.3708	-0.0052	0.0048	0.0011	-0.9237	-0.2052
33	-0.01	-5.02	0.7071	0.0273	0.2718	0.0387	0.3344	-0.0033	0.0030	0.0007	-0.9097	-0.2122
34	-0.01	-5.78	0.6959	0.0270	0.2772	0.0387	0.3983	-0.0038	0.0035	0.0007	-0.9282	-0.1931
35	-0.01	-6.57	0.7197	0.0271	0.2802	0.0377	0.3874	-0.0040	0.0036	0.0009	-0.9006	-0.2168
36	-0.01	-7.40	0.7187	0.0282	0.2828	0.0393	0.3435	-0.0027	0.0025	0.0005	-0.9172	-0.1853
37	-0.01	-8.17	0.7470	0.0282	0.2885	0.0378	0.3863	-0.0016	0.0014	0.0004	-0.8912	-0.2293
38	-0.01	-8.97	0.7618	0.0278	0.2926	0.0365	0.3840	-0.0028	0.0026	0.0006	-0.9113	-0.2025
39	-0.01	-9.73	0.7815	0.0267	0.3046	0.0341	0.3898	-0.0008	0.0008	0.0001	-0.9381	-0.1668
40	-0.01	-10.53	0.8044	0.0257	0.3116	0.0319	0.3873	-0.0016	0.0014	0.0004	-0.8912	-0.2293
41	0.0	-11.27	0.8422	0.0246	0.3204	0.0242	0.3805	-0.0003	-0.0003	-0.0001	-1.0006	-0.3335
42	0.0	-12.05	0.8649	0.0237	0.3303	0.0273	0.3819	-0.0005	0.0005	0.0001	-0.9006	-0.2668
43	-0.01	-12.83	0.8786	0.0225	0.3403	0.0256	0.3873	-0.0004	0.0005	0.0001	-1.1257	-0.1668
44	-0.01	-13.63	0.9122	0.0212	0.3489	0.0233	0.3825	-0.0013	0.0012	0.0003	-0.9237	-0.2052
45	0.0	-14.45	0.9336	0.0197	0.3583	0.0211	0.3838	-0.0001	0.0002	-0.0000	-1.5009	0.3332
46	0.0	-15.28	0.9619	0.0174	0.3672	0.0181	0.3817	0.0003	-0.0003	-0.0001	-1.0006	-0.3335

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 108 0.85 1.7 0.0 82WDF13 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	LH4	CB4	XCPF4	YCPF4
47	-0.01	-16.11	0.9717	0.0157	0.3767	0.0161	0.3877	0.0006	-0.0005	-0.0001	-0.8755	-0.1668
48	0.0	-16.90	0.9872	0.0143	0.3785	0.0145	0.3838	0.0009	-0.0008	-0.0002	-0.9172	-0.2223
49	0.0	-17.78	1.0197	0.0116	0.3474	0.0114	0.3897	0.0009	-0.0008	-0.0002	-0.9172	-0.2223
50	0.0	-18.63	1.0436	0.0107	0.3596	0.0102	0.3829	0.0	0.0	0.0	0.0	0.0
51	0.0	-19.48	1.0550	0.0084	0.4098	0.0080	0.3884	0.0004	-0.0004	-0.0001	-0.9381	-0.1668
52	0.0	-20.25	1.0835	0.0069	0.4157	0.0064	0.3836	0.0004	-0.0004	-0.0001	-0.9381	-0.1668

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	109	0.92	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP		
1	0.0	19.68	0.0040	-0.0136	-2.1215	0.6424	-0.0570	-0.0623	-3.4000		
2	0.0	19.38	-0.0462	0.1677	-2.1845	6.6140	-0.0330	-0.0626	-3.6294		
3	0.0	18.62	0.0304	-0.0805	-1.9489	0.3828	-0.0620	-0.0440	-2.6500		
4	0.0	17.81	-0.0039	0.0615	-1.8385	0.1267	-0.0480	-0.0134	-15.7590		
5	0.01	16.93	0.0218	0.0615	-1.6332	-0.2792	-0.0540	0.0263	2.8202		
6	0.0	16.17	-0.0044	0.0712	-1.4561	-0.5461	-0.0390	0.0575	-16.1727		
7	0.0	15.38	0.0122	0.0299	-1.2141	-0.5479	-0.0520	0.0997	2.4525		
8	0.0	14.64	-0.0035	0.0669	-1.0917	-1.1303	-0.0350	0.1164	-19.1143		
9	0.0	13.82	-0.0043	0.0360	-0.9163	-1.4808	-0.0410	0.1493	-8.8419		
10	0.0	13.06	-0.0026	0.0016	-0.7299	-1.7878	-0.0370	0.1820	-0.6308		
11	0.0	12.33	-0.0012	-0.0343	-0.5705	-2.0259	-0.0290	0.2044	28.6000		
12	0.0	11.52	0.0064	-0.0710	-0.4375	-2.4250	-0.0190	0.2431	-11.0875		
13	0.0	10.76	-0.0010	-0.0626	-0.2403	-2.7412	-0.0160	0.2803	62.5999		
14	0.0	9.93	-0.0101	-0.0319	-0.0504	-3.1300	-0.0130	0.3249	3.1545		
15	0.0	9.13	0.0044	-0.0582	0.0513	-3.4664	-0.0140	0.3612	-13.2182		
16	-0.01	8.31	0.0119	-0.1056	0.2238	-3.8638	-0.0140	0.3911	-8.8790		
17	-0.01	7.52	0.0243	-0.1800	0.4195	-4.3269	-0.0060	0.4323	-7.4082		
18	-0.01	6.72	-0.0043	-0.1570	0.6156	-4.7454	0.0030	0.4688	36.5070		
19	-0.01	5.93	0.0362	-0.2526	0.7218	-5.0750	-0.0040	0.4996	-6.9801		
20	-0.01	5.07	0.0300	-0.2260	0.8335	-5.3991	0.0010	0.5293	-7.5333		
21	-0.01	4.29	0.0355	-0.2447	0.9400	-5.7144	0.0070	0.5529	-7.0336		
22	-0.01	3.49	0.0507	-0.3009	1.0748	-5.9711	0.0040	0.5784	-5.9365		
23	-0.01	2.78	0.0516	-0.2972	1.1684	-6.2052	0.0120	0.5956	-5.7605		
24	-0.01	1.96	0.0482	-0.3084	1.2835	-6.4303	0.0210	0.6144	-6.4000		
25	-0.01	1.22	0.0440	-0.2856	1.3858	-6.5885	0.0170	0.6226	-6.4909		
26	-0.01	0.48	0.0375	-0.2615	1.4688	-6.7537	0.0150	0.6390	-6.9733		
27	-0.01	-0.29	0.0297	-0.2585	1.5609	-6.9446	0.0140	0.6612	-8.7064		
28	-0.01	-1.10	0.0505	-0.2967	1.6700	-7.1493	0.0070	0.6780	-5.8752		
29	-0.01	-1.90	0.0322	-0.2690	1.8118	-7.5098	0.0060	0.7113	-8.3565		
30	-0.01	-2.68	0.0358	-0.2761	1.9080	-7.7556	0.0100	0.7306	-7.7128		
31	-0.01	-3.54	0.0329	-0.2720	1.9846	-7.8888	0.0190	0.7490	-8.2693		
32	-0.01	-4.32	0.0390	-0.2826	2.0155	-7.9281	0.0300	0.7653	-7.2462		
33	-0.01	-5.10	0.0482	-0.3034	2.0388	-7.9597	0.0450	0.7668	-6.2963		
34	-0.02	-5.84	0.1595	-0.7362	1.9412	-7.0782	0.1140	0.7606	-4.6163		
35	-0.01	-6.64	0.0944	-0.4921	1.8767	-6.5308	0.0590	0.7497	-5.2136		
36	-0.01	-7.41	0.0519	-0.3376	1.9040	-6.2831	0.0370	0.7418	-6.5060		
37	-0.01	-8.21	0.0056	-0.1058	1.9658	-6.2357	0.0120	0.7369	-18.9000		
38	-0.01	-8.98	0.0080	-0.1202	2.0082	-6.1851	0.0120	0.7252	-15.0250		
39	-0.01	-9.78	-0.0070	-0.0772	2.1145	-6.3399	0.0020	0.7191	11.0286		
40	-0.01	-10.54	-0.0708	-0.0409	2.2520	-6.4754	0.0	0.7017	1.9654		
41	-0.01	-11.33	-0.0033	-0.1144	2.3211	-6.5603	0.0050	0.7001	34.6606		
42	0.0	-12.06	-0.0192	-0.0731	2.4137	-6.6047	0.0	0.7032	3.8083		
43	0.0	-12.81	-0.0062	-0.0733	2.5313	-6.7654	-0.0060	0.6980	11.8258		
44	0.0	-13.63	-0.0089	-0.0595	2.6545	-6.8218	-0.0040	0.6978	6.6899		
45	-0.01	-14.44	-0.0206	-0.0722	2.7570	-7.0084	-0.0100	0.6927	3.5029		
46	-0.01	-15.30	-0.0162	-0.0673	2.9617	-7.1740	-0.0150	0.6997	4.1556		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 109 0.92 1.7 0.0 B2W0F13 0.0 20 0 20 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	-0.01	-16.09	0.0046	-0.1274	3.0272	-7.2687	-0.0120	0.6961	-27.7043
48	-0.01	-16.92	-0.0286	-0.0600	3.1756	-7.4184	-0.0200	0.7139	2.0965
49	-0.01	-17.76	0.0058	-0.1271	3.3358	-7.5757	-0.0160	0.7110	-21.9172
50	-0.01	-18.64	-0.0259	-0.0417	3.4724	-7.6771	-0.0150	0.7148	1.6116
51	0.0	-19.46	0.0020	-0.1048	3.6435	-7.8746	-0.0090	0.7187	-52.4000
52	0.0	-20.23	0.1127	-0.2547	3.8223	-7.9909	-0.0010	0.7120	-2.2607

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CNLF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION	
6 109 0.92 1.7				0.0	82WOF13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNFI	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.0	19.68	-0.3681	-0.0774	-0.1111	0.2103	0.3017	-0.0020	0.0032	0.0006	-1.5760	-0.3168
2	0.0	19.38	-0.3647	-0.0755	-0.1071	0.2071	0.2937	-0.0159	0.0027	0.0021	-0.1699	-0.1322
3	0.0	18.62	-0.3183	-0.0700	-0.0954	0.2199	0.2999	-0.0175	0.0029	0.0024	-0.1672	-0.1354
4	0.0	17.81	-0.2564	-0.0615	-0.0791	0.2398	0.3086	-0.0098	0.0035	0.0015	-0.3599	-0.1566
5	0.01	16.93	-0.1873	-0.0480	-0.0564	0.2562	0.3012	-0.0068	0.0045	0.0013	-0.6622	-0.1962
6	0.0	16.17	-0.1135	-0.0366	-0.0379	0.3230	0.3341	-0.0113	0.0031	0.0016	-0.2723	-0.1447
7	0.0	15.38	-0.0476	-0.0285	-0.0219	0.5991	0.4593	-0.0098	0.0038	0.0015	-0.3905	-0.1566
8	0.0	14.64	0.0023	-0.0193	-0.0063	-8.3857	-2.7537	-0.0175	0.0037	0.0024	-0.2101	-0.1354
9	0.0	13.82	0.0519	-0.0082	0.0087	-0.1576	0.1675	-0.0205	0.0029	0.0027	-0.1428	-0.1302
10	0.0	13.06	0.1000	0.0002	0.0273	0.0023	0.2732	-0.0266	0.0022	0.0033	-0.0818	-0.1254
11	0.0	12.33	0.1690	0.0095	0.0448	0.0560	0.2651	-0.0250	0.0017	0.0031	-0.0690	-0.1228
12	0.0	11.52	0.2319	0.0167	0.0680	0.0719	0.2931	-0.0265	0.0015	0.0032	-0.0566	-0.1196
13	0.0	10.76	0.2888	0.0252	0.0855	0.0874	0.2961	-0.0219	0.0020	0.0027	-0.0925	-0.1234
14	0.0	9.93	0.3555	0.0330	0.1081	0.0929	0.3039	-0.0357	0.0016	0.0043	-0.0441	-0.1206
15	0.0	9.13	0.4255	0.0381	0.1310	0.0895	0.3078	-0.0372	0.0014	0.0044	-0.0383	-0.1184
16	-0.01	8.31	0.5098	0.0427	0.1554	0.0838	0.3048	-0.0264	0.0020	0.0032	-0.0768	-0.1213
17	-0.01	7.52	0.5965	0.0428	0.1834	0.0717	0.3082	-0.0310	0.0017	0.0038	-0.0533	-0.1216
18	-0.01	6.72	0.6825	0.0484	0.2063	0.0709	0.3023	-0.0401	0.0008	0.0046	-0.0187	-0.1157
19	-0.01	5.93	0.7448	0.0515	0.2236	0.0692	0.3002	0.1367	0.0020	-0.0153	0.0148	-0.1119
20	-0.01	5.07	0.8031	0.0538	0.2413	0.0670	0.3005	0.0047	-0.0006	-0.0006	-0.0798	-0.1349
21	-0.01	4.29	0.8664	0.0559	0.2549	0.0645	0.2942	0.0184	0.0006	-0.0021	0.0326	-0.1124
22	-0.01	3.49	0.8998	0.0556	0.2686	0.0618	0.2989	-0.0015	0.0002	0.0002	-0.1001	-0.1335
23	-0.01	2.78	0.9449	0.0538	0.2796	0.0570	0.2959	-0.0152	-0.0010	0.0016	0.0642	-0.1076
24	-0.01	1.96	0.9993	0.0498	0.2954	0.0498	0.2956	-0.0108	0.0	0.0013	0.0	-0.1205
25	-0.01	1.22	1.0277	0.0491	0.2977	0.0478	0.2897	-0.0230	-0.0004	0.0025	0.0163	-0.1103
26	-0.01	0.48	1.0488	0.0464	0.3074	0.0442	0.2931	-0.0215	-0.0005	0.0024	0.0244	-0.1133
27	-0.01	-0.29	1.1014	0.0440	0.3179	0.0400	0.2886	-0.0168	-0.0008	0.0018	0.0447	-0.1073
28	-0.01	-1.10	1.1260	0.0399	0.3289	0.0355	0.2921	-0.0155	0.0002	0.0018	-0.0145	-0.1184
29	-0.01	-1.90	1.1893	0.0363	0.3438	0.0306	0.2890	-0.0216	0.0	0.0025	0.0	-0.1159
30	-0.01	-2.68	1.2358	0.0334	0.3589	0.0270	0.2905	-0.0216	-0.0002	0.0024	0.0069	-0.1112
31	-0.01	-3.54	1.2715	0.0303	0.3696	0.0238	0.2906	-0.0231	-0.0007	0.0026	0.0292	-0.1127
32	-0.01	-4.32	1.2932	0.0275	0.3742	0.0213	0.2893	-0.0246	-0.0008	0.0027	0.0336	-0.1099
33	-0.01	-5.10	1.2682	0.0255	0.3628	0.0201	0.2861	0.0	-0.0003	0.0	-0.0003	0.0
34	-0.02	-5.84	1.2741	0.0237	0.3685	0.0186	0.2892	0.0496	-0.0010	-0.0058	-0.0197	-0.1164
35	-0.01	-6.64	1.1234	0.0266	0.3160	0.0237	0.2813	0.0186	-0.0004	-0.0022	-0.0202	-0.1184
36	-0.01	-7.41	1.0398	0.0272	0.2903	0.0261	0.2792	-0.0217	0.0011	0.0026	-0.0484	-0.1184
37	-0.01	-8.21	1.0056	0.0286	0.2865	0.0284	0.2849	-0.0327	0.0019	0.0040	-0.0574	-0.1224
38	-0.01	-8.98	1.0099	0.0289	0.2860	0.0286	0.2832	-0.0467	0.0028	0.0056	-0.0595	-0.1207
39	-0.01	-9.78	1.0323	0.0288	0.2905	0.0279	0.2815	-0.0374	0.0023	0.0045	-0.0622	-0.1213
40	-0.01	-10.54	1.0545	0.0284	0.2957	0.0269	0.2805	-0.0406	0.0035	0.0051	-0.0850	-0.1249
41	-0.01	-11.33	1.0709	0.0260	0.3074	0.0243	0.2871	-0.0420	0.0023	0.0050	-0.0554	-0.1192
42	0.0	-12.06	1.0992	0.0252	0.3104	0.0230	0.2824	-0.0482	0.0022	0.0057	-0.0452	-0.1191
43	0.0	-12.81	1.0977	0.0249	0.3155	0.0226	0.2875	-0.0420	0.0020	0.0050	-0.0482	-0.1192
44	0.0	-13.63	1.1398	0.0232	0.3255	0.0204	0.2856	-0.0373	0.0009	0.0044	-0.0241	-0.1172
45	-0.01	-14.44	1.1540	0.0216	0.3301	0.0187	0.2861	-0.0376	0.0035	0.0047	-0.0918	-0.1242
46	-0.01	-15.30	1.2084	0.0203	0.3395	0.0168	0.2810	-0.0096	0.0020	0.0013	-0.2033	-0.1355

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 109 0.92 1.7 0.0 82WOF13 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	-0.01	-16.09	1.2100	0.0190	0.3494	0.0157	0.2888	-0.0174	0.0027	0.0023	-0.1553	-0.1323
48	-0.01	-16.92	1.2258	0.0178	0.3554	0.0145	0.2900	-0.0034	0.0020	0.0007	-0.5739	-0.1962
49	-0.01	-17.76	1.2621	0.0155	0.3654	0.0123	0.2895	-0.0047	0.0027	0.0015	-0.2785	-0.1513
50	-0.01	-18.64	1.2880	0.0138	0.3709	0.0107	0.2880	-0.0267	0.0020	0.0033	-0.0759	-0.1237
51	0.0	-19.46	1.3154	0.0107	0.3841	0.0082	0.2920	-0.0316	0.0037	0.0041	-0.1164	-0.1288
52	0.0	-20.23	1.3383	0.0095	0.3936	0.0071	0.2941	-0.0558	0.0099	0.0075	-0.1775	-0.1345

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 109 0.92 1.7			0.0	0.2WOF13	0.0	20	0	20	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	0.0	19.68	-0.3180	-0.0598	-0.0718	0.1880	0.2259	0.0046	-0.0043	-0.0010	-0.9299	-0.2103
2	0.0	19.38	-0.3079	-0.0583	-0.0687	0.1895	0.2230	0.0039	-0.0036	-0.0009	-0.9237	-0.2306
3	0.0	18.62	-0.2602	-0.0510	-0.0547	0.1959	0.2102	0.0012	-0.0011	-0.0003	-0.9381	-0.2501
4	0.0	17.81	-0.2276	-0.0454	-0.0418	0.1992	0.1838	0.0039	-0.0036	-0.0008	-0.9237	-0.2052
5	0.01	16.93	-0.1683	-0.0357	-0.0199	0.2114	0.1180	0.0061	-0.0057	-0.0013	-0.9350	-0.2078
6	0.0	16.17	-0.1170	-0.0294	-0.0063	0.2510	0.0935	0.0077	-0.0071	-0.0016	-0.9259	-0.2122
7	0.0	15.38	-0.0487	-0.0185	0.0134	0.3806	-0.2746	0.0089	-0.0082	-0.0019	-0.9191	-0.2173
8	0.0	14.64	0.0009	-0.0111	0.0296	-12.3410	32.8888	0.0101	-0.0034	-0.0022	-0.9288	-0.2212
9	0.0	13.82	0.0599	-0.0015	0.0506	-0.0251	0.8441	0.0105	-0.0097	-0.0023	-0.9220	-0.2192
10	0.0	13.06	0.1177	0.0064	0.0659	0.0542	0.5603	0.0108	-0.0100	-0.0024	-0.9242	-0.2223
11	0.0	12.33	0.1507	0.0144	0.0854	0.0957	0.5669	0.0099	-0.0092	-0.0022	-0.9248	-0.2223
12	0.0	11.52	0.2238	0.0216	0.1070	0.0563	0.4781	0.0070	-0.0065	-0.0016	-0.9220	-0.2239
13	0.0	10.76	0.2759	0.0283	0.1254	0.1026	0.4565	0.0068	-0.0062	-0.0015	-0.9160	-0.2256
14	0.0	9.93	0.3452	0.0336	0.1535	0.0975	0.4448	0.0033	-0.0031	-0.0007	-0.9324	-0.2122
15	0.0	9.13	0.4075	0.0374	0.1799	0.0918	0.4415	0.0026	-0.0024	-0.0005	-0.9237	-0.2052
16	-0.01	8.31	0.4829	0.0394	0.2074	0.0816	0.4296	0.0002	-0.0002	-0.0000	-0.7505	-0.1668
17	-0.01	7.52	0.5494	0.0425	0.2325	0.0774	0.4232	0.0009	-0.0008	-0.0002	-0.9172	-0.2223
18	-0.01	6.72	0.6133	0.0462	0.2506	0.0753	0.4086	0.0010	-0.0009	-0.0003	-0.9006	-0.2668
19	-0.01	5.93	0.6732	0.0474	0.2726	0.0704	0.4050	0.0003	-0.0003	-0.0001	-1.0006	-0.3335
20	-0.01	5.07	0.7256	0.0470	0.2869	0.0648	0.3954	-0.0004	0.0004	0.0001	-0.9381	-0.1668
21	-0.01	4.29	0.7588	0.0461	0.3019	0.0608	0.3778	-0.0020	0.0016	0.0004	-0.9006	-0.2168
22	-0.01	3.49	0.8286	0.0417	0.3162	0.0503	0.3316	-0.0029	0.0027	0.0005	-0.9316	-0.1840
23	-0.01	2.78	0.8403	0.0402	0.3249	0.0478	0.3867	-0.0033	0.0031	0.0007	-0.9324	-0.2122
24	-0.01	1.96	0.8755	0.0396	0.3308	0.0452	0.3779	-0.0043	0.0040	0.0009	-0.9250	-0.2017
25	-0.01	1.22	0.8977	0.0373	0.3413	0.0416	0.3802	-0.0054	0.0050	0.0011	-0.9311	-0.2038
26	-0.01	0.48	0.9233	0.0341	0.3506	0.0369	0.3797	-0.0051	0.0047	0.0010	-0.9270	-0.1962
27	-0.01	-0.29	0.9695	0.0305	0.3640	0.0314	0.3754	-0.0047	0.0044	0.0009	-0.9261	-0.1987
28	-0.01	-1.10	1.0077	0.0260	0.3784	0.0258	0.3755	-0.0060	0.0056	0.0012	-0.9256	-0.2001
29	-0.01	-1.90	1.0565	0.0240	0.3961	0.0227	0.3749	-0.0044	0.0041	0.0009	-0.9210	-0.2122
30	-0.01	-2.68	1.0872	0.0216	0.4095	0.0199	0.3767	-0.0051	0.0047	0.0010	-0.9123	-0.1962
31	-0.01	-3.54	1.1028	0.0194	0.4151	0.0176	0.3764	-0.0036	0.0033	0.0007	-0.9172	-0.1946
32	-0.01	-4.32	1.1116	0.0183	0.4120	0.0165	0.3787	-0.0040	0.0037	0.0008	-0.9193	-0.1918
33	-0.01	-5.10	0.9560	0.0158	0.3601	0.0207	0.3766	-0.0036	0.0033	0.0007	-0.9172	-0.1946
34	-0.02	-5.84	0.8439	0.0214	0.3201	0.0254	0.3793	-0.0049	0.0045	0.0010	-0.9189	-0.1974
35	-0.01	-6.64	0.8134	0.0222	0.3133	0.0273	0.3851	-0.0037	0.0035	0.0008	-0.9330	-0.2073
36	-0.01	-7.41	0.8662	0.0206	0.3204	0.0238	0.3699	-0.0028	0.0026	0.0006	-0.9113	-0.2025
37	-0.01	-8.21	0.8092	0.0215	0.3223	0.0247	0.3709	-0.0024	0.0027	0.0005	-0.9316	-0.1840
38	-0.01	-8.98	0.8892	0.0208	0.3274	0.0234	0.3682	-0.0025	0.0023	0.0006	-0.9006	-0.2268
39	-0.01	-9.78	0.8991	0.0207	0.3379	0.0231	0.3758	-0.0027	0.0025	0.0006	-0.9172	-0.2223
40	-0.01	-10.54	0.9150	0.0195	0.3445	0.0213	0.3754	-0.0007	0.0007	0.0002	-0.9649	-0.2302
41	-0.01	-11.33	0.9315	0.0193	0.3491	0.0207	0.3748	-0.0024	0.0022	0.0005	-0.9068	-0.2085
42	0.0	-12.06	0.9540	0.0179	0.3597	0.0187	0.3771	-0.0009	0.0008	0.0002	-0.9172	-0.2223
43	0.0	-12.81	0.9741	0.0173	0.3648	0.0178	0.3745	-0.0007	0.0006	0.0002	-0.8577	-0.2382
44	0.0	-13.63	0.9905	0.0155	0.3725	0.0157	0.3760	-0.0011	0.0010	0.0002	-0.8869	-0.2122
45	-0.01	-14.44	1.0195	0.0144	0.3824	0.0141	0.3751	-0.0001	0.0001	0.0001	-0.7505	-0.6668
46	-0.01	-15.30	1.0315	0.0120	0.3914	0.0116	0.3795	0.0	0.0	0.0	0.0	0.0

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NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 109 0.92 1.7 0.0 B2HOF13 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.01	-16.09	1.0564	0.0109	0.3554	0.0103	0.3743	-0.0001	0.0001	0.0001	-0.7505	-0.6668
48	-0.01	-16.92	1.0844	0.0085	0.4108	0.0078	0.3788	0.0	0.0	0.0	0.0	0.0
49	-0.01	-17.76	1.1053	0.0077	0.4143	0.0070	0.3749	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
50	-0.01	-18.64	1.1286	0.0053	0.4279	0.0047	0.3791	-0.0001	0.0002	-0.0000	-1.5009	0.3332
51	0.0	-19.46	1.1551	0.0035	0.4352	0.0031	0.3768	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
52	0.0	-20.23	1.1759	0.0017	0.4426	0.0014	0.3764	-0.0003	0.0002	0.0001	-0.7505	-0.3335

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 110 0.97 1.7			0.0	82WOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	19.69	-0.0438	0.1083	-2.3057	0.5543	-0.0550	-0.0011	-2.4731	
2	0.02	19.32	-0.0288	0.1953	-2.4270	0.6951	-0.0510	-0.0305	-6.7819	
3	0.02	18.57	-0.0314	0.1459	-2.3845	0.4722	-0.0470	0.0180	-6.2408	
4	0.01	17.67	0.0073	-0.0502	-1.8946	-0.0553	-0.0560	0.0592	-6.8794	
5	0.02	16.86	-0.0071	0.0899	-1.7206	-0.3938	-0.0440	0.0944	-12.6676	
6	0.02	16.09	-0.0346	0.1374	-1.5722	-0.7045	-0.0450	0.1405	-3.9722	
7	0.01	15.21	-0.0139	-0.0065	-1.2873	-1.1274	-0.0430	0.1973	0.4705	
8	0.02	14.41	0.0172	0.0429	-1.2266	-1.3940	-0.0380	0.2337	2.4453	
9	0.0	13.72	-0.1249	0.1658	-0.9820	-1.5609	-0.0240	0.2663	-1.3279	
10	0.02	12.95	0.0088	0.0077	-0.8010	-1.8532	-0.0420	0.2937	0.8727	
11	0.0	12.21	-0.0784	0.0318	-0.6649	-2.1847	-0.0370	0.3267	-0.4051	
12	0.01	11.38	-0.0095	-0.0017	-0.3932	-2.5600	-0.0340	0.3788	0.1789	
13	0.01	10.64	-0.0638	0.0743	-0.1607	-3.0576	-0.0200	0.4131	-1.1649	
14	0.0	9.86	-0.0149	-0.0961	-0.0638	-3.2613	-0.0300	0.4335	6.4523	
15	0.01	9.07	-0.0161	-0.0325	0.1327	-3.6643	-0.0230	0.4666	2.0161	
16	0.01	8.16	0.0027	-0.1158	0.2465	-4.0691	-0.0250	0.4918	-42.8815	
17	0.01	7.49	0.0045	-0.0753	0.6075	-4.7050	-0.0170	0.5440	-16.7333	
18	0.01	6.63	-0.0052	-0.0587	0.4745	-4.7858	-0.0180	0.5503	11.2923	
19	0.01	5.81	0.0254	-0.1635	0.7722	-5.4035	-0.0150	0.5999	-6.4394	
20	0.01	4.97	0.0232	-0.1445	0.9247	-5.7646	-0.0160	0.6285	-6.4431	
21	0.0	4.16	0.0066	-0.1482	1.0405	-6.0370	-0.0100	0.6552	-22.4606	
22	0.0	3.36	0.0318	-0.2765	1.2247	-6.6490	-0.0140	0.7010	-5.3382	
23	0.0	2.66	0.0346	-0.2644	1.2976	-6.8790	-0.0200	0.7243	-7.6428	
24	0.0	1.86	0.0356	-0.2508	1.5209	-7.3816	-0.0130	0.7488	-7.0461	
25	0.0	1.07	0.0476	-0.2746	1.6791	-7.8230	-0.0120	0.7811	-5.7697	
26	0.0	0.48	0.0277	-0.2427	1.6228	-7.8892	0.0130	0.7784	-8.7646	
27	0.0	-0.39	0.0442	-0.2888	1.8644	-8.2574	0.0030	0.8041	-6.5357	
28	0.0	-1.21	0.0433	-0.2526	1.8748	-8.4449	0.0190	0.8279	-10.8421	
29	0.0	-2.05	0.0309	-0.2762	1.9665	-8.6020	0.0160	0.8382	-8.9405	
30	0.0	-2.83	0.0008	-0.2151	2.1257	-8.8562	0.0140	0.8588	-268.8999	
31	0.0	-3.65	0.0618	-0.2945	2.2721	-9.1892	0.0090	0.8782	-4.7657	
32	0.0	-4.44	0.0170	-0.2128	2.3870	-9.3600	0.0050	0.8950	-12.5176	
33	0.0	-5.22	0.0289	-0.2474	2.3843	-9.4822	0.0100	0.9014	-8.5626	
34	0.0	-5.94	0.0337	-0.2661	2.5567	-9.8135	0.0040	0.9290	-7.3050	
35	0.0	-6.76	0.0303	-0.2534	2.6839	-9.9747	0.0180	0.9384	-8.3637	
36	0.0	-7.57	0.0296	-0.2414	2.6081	-9.8035	0.0180	0.9408	-8.1568	
37	0.0	-8.38	0.0337	-0.2761	2.7188	-9.8946	0.0220	0.9410	-8.1952	
38	0.0	-9.12	0.0050	-0.1650	2.9572	-10.0403	0.0150	0.9491	-33.0000	
39	-0.01	-9.92	0.0134	-0.2437	3.0055	-9.9785	0.0210	0.9446	-18.1910	
40	-0.03	-10.65	0.1904	-0.8944	2.8166	-9.0296	0.1500	0.9152	-4.6983	
41	-0.03	-11.40	0.1970	-0.9017	2.8793	-8.9024	0.1320	0.8961	-4.5777	
42	-0.01	-12.15	0.0365	-0.3139	2.7739	-8.2209	0.0230	0.8720	-8.1532	
43	-0.01	-12.94	0.0344	-0.2651	2.9317	-8.4148	0.0210	0.8717	-7.7081	
44	-0.01	-13.74	0.0097	-0.1916	2.8448	-7.9152	0.0050	0.8162	-19.7505	
45	-0.01	-14.55	0.0080	-0.2052	3.1908	-8.3266	0.0020	0.8369	-25.6500	
46	-0.01	-15.41	0.0430	-0.3442	3.2371	-8.3274	0.0130	0.8236	-8.0046	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	110	0.97	1.7	0.0	0.2	0.0	20	0	20	0
										FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	-0.01	-16.17	0.0321	-0.2359	3.1860	-8.3459	0.0090	0.8093	-7.3502
48	-0.01	-16.99	0.0113	-0.2088	3.2607	-8.3774	0.0030	0.8389	-18.4796
49	-0.01	-17.81	0.0156	-0.2158	3.3401	-8.1206	-0.0020	0.7901	-13.8359
50	-0.01	-18.64	0.0491	-0.3557	3.8695	-8.4779	-0.0130	0.7600	-7.2452
51	0.0	-19.48	0.0533	-0.1716	3.6308	-8.3167	-0.0100	0.7831	-3.2199
52	0.0	-20.17	0.0621	-0.2369	4.3372	-8.5318	-0.0100	0.7192	-3.8155

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	110	0.97	1-7	0.0	B2M0F13	0-0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	0.01	19.69	-0.4256	-0.0677	-0.1141	0.1589	0.2681	0.1416	0.0044	-0.0156	0.0313	-0.1099
2	0.02	19.32	-0.4140	-0.0676	-0.1153	0.1632	0.2786	0.1130	0.0033	-0.0125	0.0292	-0.1105
3	0.02	18.57	-0.3623	-0.0626	-0.0951	0.1728	0.2625	0.2275	0.0054	-0.0252	0.0238	-0.1109
4	0.01	17.67	-0.2883	-0.0568	-0.0748	0.1972	0.2596	0.0927	0.0052	-0.0099	0.0559	-0.1074
5	0.02	16.86	-0.2220	-0.0488	-0.0525	0.2198	0.2363	0.0254	0.0035	-0.0024	0.1389	-0.0959
6	0.02	16.09	-0.1679	-0.0402	-0.0388	0.2393	0.2313	0.1203	0.0023	-0.0135	0.0187	-0.1119
7	0.01	15.21	-0.1050	-0.0303	-0.0152	0.2883	0.1445	0.0639	0.0039	-0.0068	0.0611	-0.1065
8	0.02	14.41	-0.0374	-0.0206	0.0032	0.5518	-0.0866	0.0411	0.0029	-0.0043	0.0712	-0.1047
9	0.0	13.72	0.0182	-0.0133	0.0198	-0.7298	1.0860	0.0041	0.0014	-0.0003	0.3478	-0.0814
10	0.02	12.95	0.0573	-0.0095	0.0353	-0.1650	0.6857	0.1778	0.0031	-0.0199	0.0173	-0.1119
11	0.0	12.21	0.1154	-0.0029	0.0581	-0.0247	0.5032	0.0054	0.0023	-0.0004	0.4308	-0.0742
12	0.01	11.38	0.2012	0.0028	0.0812	0.0138	0.4033	0.1490	0.0023	-0.0167	0.0156	-0.1121
13	0.01	10.64	0.2964	0.0098	0.1124	0.0332	0.3791	0.1249	0.0010	-0.0141	0.0078	-0.1131
14	0.0	9.86	0.3474	0.0137	0.1292	0.0396	0.3718	0.1191	0.0026	-0.0133	0.0214	-0.1113
15	0.01	9.07	0.4165	0.0179	0.1503	0.0429	0.3608	0.0638	0.0016	-0.0070	0.0247	-0.1104
16	0.01	8.16	0.4955	0.0223	0.1768	0.0450	0.3568	0.0111	0.0020	-0.0010	0.1825	-0.0902
17	0.01	7.49	0.5760	0.0256	0.2059	0.0445	0.3575	0.0340	0.0019	-0.0037	0.0552	-0.1080
18	0.01	6.63	0.6419	0.0282	0.2271	0.0440	0.3538	-0.0088	0.0016	0.0012	-0.1791	-0.1327
19	0.01	5.81	0.7381	0.0303	0.2557	0.0410	0.3464	0.0112	0.0022	-0.0011	0.1943	-0.0954
20	0.01	4.97	0.7999	0.0307	0.2790	0.0384	0.3487	-0.0216	0.0012	0.0026	-0.0556	-0.1205
21	0.0	4.16	0.8908	0.0316	0.3054	0.0355	0.3429	0.1315	0.0008	-0.0148	0.0057	-0.1128
22	0.0	3.36	0.9520	0.0319	0.3270	0.0335	0.3435	-0.0103	0.0019	0.0015	-0.1822	-0.1425
23	0.0	2.66	1.0264	0.0320	0.3462	0.0312	0.3373	0.0470	0.0015	-0.0051	0.0319	-0.1093
24	0.0	1.86	1.0918	0.0316	0.3666	0.0240	0.3358	-0.0159	0.0014	0.0020	-0.0897	-0.1259
25	0.0	1.07	1.1769	0.0310	0.3941	0.0263	0.3348	-0.0345	0.0014	0.0041	-0.0413	-0.1190
26	0.0	0.38	1.2282	0.0309	0.4079	0.0252	0.3322	0.1545	0.0011	-0.0175	0.0068	-0.1130
27	0.0	-0.39	1.2565	0.0330	0.4132	0.0262	0.3288	0.1402	0.0008	-0.0158	0.0054	-0.1129
28	0.0	-1.21	1.3191	0.0327	0.4272	0.0248	0.3239	-0.0014	0.0002	0.0001	-0.1072	-0.0954
29	0.0	-2.05	1.3536	0.0329	0.4285	0.0243	0.3166	0.1173	0.0005	-0.0133	0.0038	-0.1130
30	0.0	-2.83	1.3874	0.0320	0.4377	0.0231	0.3155	-0.0085	-0.0003	0.0010	0.0353	-0.1138
31	0.0	-3.65	1.4356	0.0290	0.4451	0.0202	0.3101	0.1745	0.0036	-0.0198	0.0034	-0.1135
32	0.0	-4.44	1.4543	0.0253	0.4534	0.0174	0.3117	0.0757	0.0007	-0.0086	0.0089	-0.1133
33	0.0	-5.22	1.4873	0.0220	0.4613	0.0148	0.3101	0.0272	0.0005	-0.0030	0.0166	-0.1116
34	0.0	-5.94	1.5406	0.0188	0.4717	0.0122	0.3062	0.0186	0.0002	-0.0021	0.0121	-0.1130
35	0.0	-6.76	1.5702	0.0162	0.4808	0.0103	0.3062	0.0129	0.0002	-0.0014	0.0116	-0.1086
36	0.0	-7.57	1.5678	0.0146	0.4788	0.0093	0.3054	0.1410	0.0002	-0.0160	0.0016	-0.1132
37	0.0	-8.38	1.5697	0.0111	0.4731	0.0071	0.3014	0.0994	0.0005	-0.0113	0.0045	-0.1139
38	0.0	-9.12	1.5806	0.0084	0.4792	0.0053	0.3032	0.1384	0.0008	-0.0156	0.0060	-0.1129
39	-0.01	-9.92	1.5729	0.0071	0.4745	0.0045	0.3017	0.0778	0.0012	-0.0087	0.0154	-0.1115
40	-0.03	-10.65	1.5947	0.0053	0.4870	0.0033	0.3054	0.2155	-0.0023	-0.0247	-0.0105	-0.1148
41	-0.03	-11.40	1.5679	0.0053	0.4776	0.0034	0.3046	0.1519	-0.0020	-0.0175	-0.0129	-0.1154
42	-0.01	-12.15	1.3492	0.0098	0.4073	0.0073	0.3018	0.2135	0.0020	-0.0241	0.0091	-0.1129
43	-0.01	-12.94	1.3514	0.0082	0.4183	0.0061	0.3095	0.2299	0.0	-0.0261	0.0	-0.1137
44	-0.01	-13.74	1.2718	0.0101	0.3938	0.0079	0.3096	0.1996	0.0014	-0.0225	0.0068	-0.1129
45	-0.01	-14.55	1.3365	0.0076	0.4122	0.0057	0.3084	-0.0334	0.0005	0.0039	-0.0157	-0.1159
46	-0.01	-15.41	1.3216	0.0078	0.4106	0.0059	0.3107	-0.0454	0.0026	0.0055	-0.0579	-0.1205

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 110 0.97 1.7 0.0 82WOF13 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	C62	XCPF2	YCPF2
47	-0.01	-16.17	1.3232	0.0068	0.4104	0.0052	0.3102	-0.0684	0.0006	0.0078	-0.0088	-0.1142
48	-0.01	-16.99	1.3468	0.0060	0.4163	0.0045	0.3091	-0.0381	0.0014	0.0045	-0.0374	-0.1182
49	-0.01	-17.81	1.3486	0.0046	0.4170	0.0034	0.3092	-0.0381	0.0014	0.0045	-0.0355	-0.1182
50	-0.01	-18.64	1.3664	0.0045	0.4227	0.0033	0.3093	-0.0285	0.0054	0.0039	-0.1896	-0.1370
51	0.0	-19.48	1.3702	0.0036	0.4216	0.0026	0.3077	-0.0633	0.0017	0.0074	-0.0261	-0.1170
52	0.0	-20.17	1.4255	0.0011	0.4346	0.0008	0.3049	-0.0209	0.0024	0.0026	-0.1149	-0.1261

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	110	0.97 1.7	0.0	82NOF13	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPF3	CNF4	CH4	CB4	XCPE4	YCPF4
1	0.01	19.69	-0.3334	-0.0535	-0.0980	0.1606	0.2939	0.0060	-0.0056	-0.0013	-0.9256	-0.2168
2	0.02	19.32	-0.3204	-0.0528	-0.0954	0.1648	0.2979	0.0077	-0.0071	-0.0016	-0.9259	-0.2122
3	0.02	18.57	-0.2730	-0.0484	-0.0762	0.1771	0.2790	0.0059	-0.0054	-0.0013	-0.9158	-0.2261
4	0.01	17.67	-0.2058	-0.0426	-0.0546	0.2072	0.2452	0.0060	-0.0056	-0.0013	-0.9256	-0.2168
5	0.02	16.86	-0.1565	-0.0361	-0.0389	0.2308	0.2488	0.0088	-0.0081	-0.0020	-0.9210	-0.2236
6	0.02	16.09	-0.0912	-0.0276	-0.0184	0.3020	0.2016	0.0067	-0.0062	-0.0015	-0.9185	-0.2190
7	0.01	15.21	-0.0348	-0.0207	0.0044	0.5952	-0.1266	0.0063	-0.0058	-0.0014	-0.9172	-0.2223
8	0.02	14.41	0.0367	-0.0143	0.0233	-0.3906	0.6357	0.0057	-0.0053	-0.0012	-0.9216	-0.2106
9	0.0	13.72	0.0004	-0.0095	0.0412	-0.1176	0.5123	0.0040	-0.0037	-0.0009	-0.9193	-0.2168
10	0.02	12.95	0.1404	-0.0034	0.0680	-0.0241	0.4843	0.0052	-0.0048	-0.0012	-0.9237	-0.2245
11	0.0	12.21	0.2056	0.0015	0.0840	0.0073	0.4086	0.0042	-0.0039	-0.0009	-0.9291	-0.2144
12	0.01	11.38	0.2790	0.0057	0.1105	0.0205	0.3960	0.0048	-0.0044	-0.0010	-0.9224	-0.2085
13	0.01	10.64	0.3504	0.0103	0.1413	0.0294	0.4032	0.0035	-0.0032	-0.0007	-0.9220	-0.2096
14	0.0	9.86	0.4048	0.0142	0.1653	0.0351	0.4084	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
15	0.01	9.07	0.4638	0.0161	0.1887	0.0348	0.4070	0.0013	-0.0013	-0.0003	-0.9814	-0.2052
16	0.01	8.16	0.5324	0.0203	0.2170	0.0368	0.3928	0.0008	-0.0008	-0.0001	-0.9381	-0.1668
17	0.01	7.49	0.6095	0.0217	0.2441	0.0356	0.4005	0.0015	-0.0014	-0.0003	-0.9506	-0.2001
18	0.01	6.63	0.6710	0.0230	0.2717	0.0342	0.4049	0.0011	-0.0011	-0.0002	-0.9551	-0.2122
19	0.01	5.81	0.7508	0.0249	0.2970	0.0332	0.3956	0.0007	-0.0007	-0.0002	-0.9649	-0.2382
20	0.01	4.97	0.8234	0.0249	0.3258	0.0302	0.3957	0.0	0.0	0.0	0.0	0.0
21	0.0	4.16	0.8847	0.0252	0.3489	0.0285	0.3944	-0.0010	0.0010	0.0002	-0.9756	-0.1668
22	0.0	3.36	0.9545	0.0264	0.3741	0.0276	0.3919	-0.0025	0.0023	0.0005	-0.9306	-0.1868
23	0.0	2.66	1.0241	0.0248	0.4011	0.0242	0.3916	-0.0031	0.0029	0.0006	-0.9199	-0.1829
24	0.0	1.86	1.0951	0.0243	0.4233	0.0222	0.3866	-0.0033	0.0031	0.0007	-0.9324	-0.2122
25	0.0	1.07	1.1498	0.0243	0.4442	0.0212	0.3863	-0.0029	0.0026	0.0006	-0.9057	-0.2185
26	0.0	0.38	1.1660	0.0213	0.4418	0.0234	0.3789	-0.0029	0.0026	0.0006	-0.9057	-0.2185
27	0.0	-0.39	1.2085	0.0266	0.4552	0.0220	0.3767	-0.0041	0.0038	0.0008	-0.9152	-0.2034
28	0.0	-1.21	1.2419	0.0268	0.4606	0.0216	0.3709	-0.0031	0.0029	0.0006	-0.9441	-0.1829
29	0.0	-2.05	1.2688	0.0249	0.4657	0.0196	0.3670	-0.0031	0.0029	0.0006	-0.9199	-0.1829
30	0.0	-2.83	1.3135	0.0227	0.4810	0.0173	0.3662	-0.0019	0.0017	0.0004	-0.9085	-0.1931
31	0.0	-3.65	1.3405	0.0204	0.4894	0.0152	0.3651	-0.0041	0.0038	0.0008	-0.9335	-0.2034
32	0.0	-4.44	1.3724	0.0179	0.4946	0.0130	0.3604	-0.0041	0.0038	0.0008	-0.9152	-0.2034
33	0.0	-5.22	1.3964	0.0151	0.5089	0.0108	0.3645	-0.0035	0.0032	0.0007	-0.9006	-0.2096
34	0.0	-5.94	1.4341	0.0129	0.5219	0.0090	0.3639	-0.0027	0.0025	0.0005	-0.9172	-0.1853
35	0.0	-6.76	1.4489	0.0105	0.5189	0.0073	0.3581	-0.0031	0.0029	0.0007	-0.9199	-0.2152
36	0.0	-7.57	1.4318	0.0072	0.5186	0.0050	0.3622	-0.0037	0.0035	0.0008	-0.9330	-0.2073
37	0.0	-8.38	1.4285	0.0053	0.5120	0.0037	0.3584	-0.0019	0.0018	0.0004	-0.9480	-0.1931
38	0.0	-9.12	1.4449	0.0034	0.5186	0.0023	0.3589	-0.0016	0.0015	0.0003	-0.9381	-0.1668
39	-0.01	-9.92	1.4142	0.0030	0.5059	0.0021	0.3578	-0.0017	0.0016	0.0003	-0.9270	-0.1962
40	-0.03	-10.65	1.1165	0.0098	0.4004	0.0088	0.3586	-0.0019	0.0018	0.0004	-0.9480	-0.1931
41	-0.03	-11.40	1.1324	0.0085	0.4034	0.0075	0.3562	-0.0012	0.0011	0.0002	-0.9381	-0.1668
42	-0.01	-12.15	1.1402	0.0079	0.4162	0.0069	0.3650	0.0	0.0	0.0	0.0	0.0
43	-0.01	-12.94	1.1959	0.0061	0.4284	0.0051	0.3582	0.0	0.0	0.0	0.0	0.0
44	-0.01	-13.74	1.1492	0.0073	0.4117	0.0063	0.3582	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
45	-0.01	-14.55	1.1901	0.0054	0.4292	0.0045	0.3606	0.0014	-0.0013	-0.0003	-0.9113	-0.2382
46	-0.01	-15.41	1.1972	0.0053	0.4282	0.0044	0.3577	-0.0004	0.0004	0.0001	-0.9381	-0.1668

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 110 0.97 1.7				0.0	82WOF13	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.01	-16.17	1.2190	0.0036	0.4375	0.0030	0.3589	0.0006	-0.0005	-0.0001	-0.8755	-0.1668
48	-0.01	-16.99	1.2344	0.0026	0.4412	0.0021	0.3575	0.0011	-0.0011	-0.0002	-0.9551	-0.2122
49	-0.01	-17.81	1.2539	0.0014	0.4496	0.0011	0.3586	0.0008	-0.0008	-0.0001	-0.9381	-0.1668
50	-0.01	-18.64	1.2689	-0.0002	0.4567	-0.0002	0.3599	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
51	0.0	-19.48	1.2604	-0.0012	0.4592	-0.0010	0.3643	0.0025	-0.0023	-0.0006	-0.9006	-0.2268
52	0.0	-20.17	1.3049	-0.0035	0.4693	-0.0026	0.3597	0.0014	-0.0013	-0.0003	-0.9113	-0.2382

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			111	1.01	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	0.02	19.60	-0.0300	0.1990	-2.1676	0.1500	-0.0460	0.0714	-6.6333				
2	0.02	19.10	-0.0562	0.1777	-2.1966	-0.0523	-0.0460	0.0716	-3.1616				
3	0.02	18.56	-0.0528	0.2179	-1.9539	-0.1601	-0.0320	0.0934	-4.1273				
4	0.02	17.54	0.0018	0.0565	-1.8889	-0.5072	-0.0550	0.1296	31.3778				
5	0.02	16.79	-0.0319	0.1520	-1.6203	-0.6842	-0.0380	0.1612	-4.0121				
6	0.02	15.94	0.0334	0.0362	-1.4143	-1.1555	-0.0410	0.2140	1.0850				
7	0.02	15.25	-0.0079	0.0701	-1.1488	-1.2372	-0.0290	0.2304	-8.8683				
8	0.02	14.43	0.0107	0.0340	-1.2560	-1.4421	-0.0350	0.2688	3.1794				
9	0.01	13.80	-0.0137	0.0002	-0.8220	-1.8808	-0.0330	0.2980	-0.0131				
10	0.02	12.84	-0.0038	0.0923	-0.7157	-2.0346	-0.0190	0.3334	-24.2947				
11	0.02	12.19	0.0517	-0.0574	-0.3674	-2.5172	-0.0330	0.3740	-1.1099				
12	0.01	11.50	-0.0298	-0.0043	-0.4644	-2.6764	-0.0240	0.3878	0.1436				
13	0.01	10.48	0.0010	-0.0104	-0.2500	-3.0216	-0.0230	0.4165	-10.4000				
14	0.01	9.75	-0.0116	-0.0008	-0.1513	-3.3167	-0.0240	0.4435	0.0655				
15	0.01	8.96	0.0079	-0.0940	0.1321	-3.8294	-0.0230	0.4920	-11.9063				
16	0.01	8.13	0.0083	-0.0966	0.2372	-4.1285	-0.0230	0.5188	-11.6410				
17	0.01	7.35	0.0075	-0.1045	0.3567	-4.4708	-0.0150	0.5499	-13.9333				
18	0.0	6.57	0.0247	-0.1746	0.5275	-4.8820	-0.0170	0.5812	-7.0680				
19	0.01	5.75	0.0074	-0.1163	0.7772	-5.3605	-0.0170	0.6266	-15.7243				
20	0.01	4.87	0.0229	-0.1250	0.7675	-5.5689	-0.0120	0.6396	-5.4611				
21	0.0	4.17	0.0209	-0.1842	1.0454	-6.1019	-0.0130	0.6870	-8.8163				
22	0.0	3.37	0.0181	-0.1693	1.1407	-6.3964	-0.0120	0.7177	-9.3558				
23	0.0	2.65	0.0067	-0.1674	1.3388	-6.7537	-0.0150	0.7468	-24.9821				
24	0.0	1.87	0.0460	-0.2474	1.4558	-7.1835	-0.0130	0.7756	-5.3783				
25	0.0	1.06	0.0263	-0.2378	1.5976	-7.6169	-0.0080	0.8042	-9.0426				
26	0.0	0.28	0.0480	-0.2812	1.7338	-7.9856	-0.0070	0.8298	-5.8583				
27	0.0	-0.44	0.0407	-0.2699	1.7445	-8.1515	0.0100	0.8405	-6.6334				
28	0.0	-1.24	0.0387	-0.2731	1.9628	-8.4382	0.0080	0.8475	-7.0589				
29	0.0	-2.00	0.0487	-0.2621	2.0125	-8.5848	0.0130	0.8643	-5.3836				
30	0.0	-2.83	0.0392	-0.2698	2.1703	-8.8437	0.0150	0.8810	-6.8847				
31	0.0	-3.62	0.0275	-0.2395	2.2312	-9.0289	0.0100	0.9014	-8.7091				
32	0.0	-4.44	0.0281	-0.2303	2.4120	-9.3040	0.0100	0.9189	-8.1972				
33	0.0	-5.21	0.0180	-0.2132	2.3856	-9.3850	0.0060	0.9459	-11.8444				
34	0.0	-5.97	0.0224	-0.2313	2.6179	-9.7402	0.0090	0.9663	-10.3286				
35	0.0	-6.76	0.0267	-0.2363	2.6774	-9.8346	0.0120	0.9775	-8.8532				
36	0.0	-7.56	0.0332	-0.2514	2.7580	-9.9605	0.0130	0.9921	-7.5747				
37	0.0	-8.35	0.0231	-0.2543	2.8579	-10.0553	0.0160	1.0030	-11.0104				
38	0.0	-9.12	0.0210	-0.2393	2.9756	-10.7161	0.0170	1.0205	-10.0555				
39	-0.01	-9.91	0.0151	-0.2471	3.0837	-10.3824	0.0160	1.0265	-16.3669				
40	-0.01	-10.67	0.0352	-0.2892	3.1386	-10.4602	0.0120	1.0270	-8.7117				
41	-0.01	-11.43	0.0297	-0.2565	3.3184	-10.6269	0.0130	1.0288	-8.6391				
42	-0.01	-12.15	0.0328	-0.2649	3.3826	-10.6388	0.0170	1.0327	-8.0768				
43	-0.01	-12.96	0.0280	-0.2762	3.4711	-10.5804	0.0180	1.0364	-9.8643				
44	-0.02	-13.71	0.0421	-0.3579	3.5551	-10.5895	0.0260	1.0431	-8.5021				
45	-0.02	-14.60	0.0363	-0.3348	3.5617	-10.3977	0.0280	1.0476	-9.2237				
46	-0.02	-15.38	0.0264	-0.3049	3.7320	-10.3181	0.0160	1.0399	-11.5515				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6	111	1.01	1.7	PH1	CONF	L	DEL1	DEL2	DEL3
				0.0	B2WOF13	0.0	20	0	20
									0
									FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	-0.02	-16.19	0.0260	-0.3104	3.8558	-10.1435	0.0010	1.0342	-11.9385
48	-0.01	-16.95	-0.0019	-0.1103	3.9851	-10.0695	-0.0310	0.9943	58.0736
49	0.0	-17.76	0.0811	-0.2355	4.1075	-10.0079	-0.0160	0.9791	-2.9043
50	-0.02	-18.66	-0.0396	-0.1775	4.0155	-9.6751	-0.0300	1.0176	4.4838
51	-0.01	-19.42	0.0017	-0.1784	4.4905	-10.0472	-0.0140	0.9501	-104.9294
52	-0.01	-20.19	0.0177	-0.2198	4.3384	-9.6553	-0.0260	0.9852	-12.4169

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION		
6 111 1.01 1.7			0.0	82WOF13	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.02	19.60	-0.3800	-0.0621	-0.1010	0.1634	0.2658	0.0314	0.0035	-0.0031	0.1099	-0.0999
2	0.02	19.10	-0.3777	-0.0615	-0.0969	0.1628	0.2567	0.0106	0.0040	-0.0008	0.3752	-0.0724
3	0.02	18.56	-0.3328	-0.0583	-0.0876	0.1753	0.2632	0.0163	0.0026	-0.0016	0.1565	-0.0962
4	0.02	17.54	-0.2896	-0.0534	-0.0691	0.1844	0.2385	-0.0434	0.0040	0.0054	-0.0916	-0.1253
5	0.02	16.79	-0.2282	-0.0463	-0.0508	0.2030	0.2227	-0.0558	0.0034	0.0068	-0.0605	-0.1220
6	0.02	15.94	-0.1532	-0.0348	-0.0271	0.2270	0.1771	-0.0238	0.0024	0.0030	-0.1009	-0.1248
7	0.02	15.25	-0.0981	-0.0293	-0.0145	0.2587	0.1475	-0.0142	0.0029	0.0020	-0.2061	-0.1386
8	0.02	14.43	-0.0296	-0.0205	0.0054	0.6922	-0.1837	0.0107	0.0029	-0.0009	0.2665	-0.0873
9	0.01	13.80	0.0373	-0.0135	0.0243	-0.3622	0.6522	0.0259	0.0027	-0.0027	0.1043	-0.1031
10	0.02	12.84	0.0903	-0.0082	0.0403	-0.0906	0.4462	0.0217	0.0027	-0.0022	0.1245	-0.1000
11	0.02	12.19	0.1445	-0.0030	0.0649	-0.0208	0.4489	0.1977	0.0047	-0.0220	0.0235	-0.1111
12	0.01	11.50	0.2076	0.0020	0.0828	0.0098	0.3988	0.0520	0.0023	-0.0057	0.0447	-0.1091
13	0.01	10.48	0.2598	0.0068	0.1025	0.0263	0.3944	0.1855	0.0020	-0.0208	0.0109	-0.1123
14	0.01	9.75	0.3222	0.0117	0.1228	0.0364	0.3810	0.0108	0.0017	-0.0010	0.1529	-0.0927
15	0.01	8.96	0.4071	0.0164	0.1506	0.0404	0.3698	-0.0085	0.0024	0.0013	-0.2825	-0.1491
16	0.01	8.13	0.4864	0.0200	0.1729	0.0411	0.3554	0.1357	0.0023	-0.0151	0.0166	-0.1115
17	0.01	7.35	0.5567	0.0231	0.2017	0.0415	0.3623	0.1069	0.0021	-0.0119	0.0197	-0.1115
18	0.0	6.57	0.6215	0.0250	0.2209	0.0402	0.3554	0.3964	0.0025	-0.0448	0.0063	-0.1130
19	0.01	5.75	0.7055	0.0268	0.2495	0.0380	0.3536	0.4735	0.0014	-0.0537	0.0029	-0.1133
20	0.01	4.87	0.7665	0.0278	0.2653	0.0362	0.3461	0.4223	0.0014	-0.0479	0.0034	-0.1134
21	0.0	4.17	0.8560	0.0275	0.2963	0.0321	0.3462	0.4827	0.0021	-0.0547	0.0044	-0.1133
22	0.0	3.37	0.9209	0.0271	0.3160	0.0294	0.3431	0.5269	0.0013	-0.0599	0.0024	-0.1136
23	0.0	2.65	0.9841	0.0267	0.3377	0.0272	0.3432	0.5142	0.0011	-0.0584	0.0022	-0.1136
24	0.0	1.87	1.0678	0.0243	0.3619	0.0227	0.3389	0.0792	0.0020	-0.0088	0.0246	-0.1112
25	0.0	1.06	1.1464	0.0229	0.3894	0.0200	0.3397	-0.0549	0.0020	0.0064	-0.0355	-0.1167
26	0.0	0.28	1.2202	0.0232	0.4044	0.0190	0.3314	0.0053	0.0014	-0.0004	0.2690	-0.0819
27	0.0	-0.44	1.2721	0.0247	0.4169	0.0194	0.3277	0.4424	0.0016	-0.0502	0.0036	-0.1134
28	0.0	-1.24	1.3056	0.0274	0.4241	0.0210	0.3249	0.0928	0.0013	-0.0104	0.0138	-0.1123
29	0.0	-2.00	1.3393	0.0283	0.4291	0.0211	0.3204	0.1146	0.0017	-0.0129	0.0144	-0.1122
30	0.0	-2.83	1.3892	0.0285	0.4383	0.0205	0.3155	0.1181	0.0011	-0.0589	0.0022	-0.1137
31	0.0	-3.62	1.4086	0.0270	0.4457	0.0191	0.3165	0.5527	0.0007	-0.0629	0.0012	-0.1137
32	0.0	-4.44	1.4519	0.0245	0.4508	0.0169	0.3105	0.5911	0.0	-0.0673	0.0	-0.1138
33	0.0	-5.21	1.4898	0.0207	0.4614	0.0139	0.3097	0.5048	0.0005	-0.0574	0.0009	-0.1138
34	0.0	-5.97	1.5277	0.0182	0.4711	0.0119	0.3097	0.5776	0.0005	-0.0594	0.0010	-0.1137
35	0.0	-6.76	1.5669	0.0151	0.4786	0.0101	0.3074	0.5907	0.0	-0.0615	0.0	-0.1138
36	0.0	-7.56	1.5901	0.0134	0.4828	0.0085	0.3036	0.5527	0.0007	-0.0629	0.0012	-0.1137
37	0.0	-8.15	1.5966	0.0103	0.4904	0.0064	0.3071	0.6198	0.0011	-0.0777	0.0018	-0.1137
38	0.0	-9.12	1.6250	0.0074	0.4976	0.0045	0.3062	0.0107	0.0018	-0.0010	0.1683	-0.0967
39	-0.01	-9.91	1.6471	0.0047	0.5032	0.0029	0.3055	0.0517	0.0014	-0.0057	0.0276	-0.1097
40	-0.01	-10.67	1.6650	0.0017	0.5097	0.0019	0.3060	-0.0017	0.0024	0.0005	-1.4176	-0.1138
41	-0.01	-11.45	1.6758	0.0005	0.5156	0.0003	0.3077	0.2214	0.0019	-0.0250	0.0085	-0.1128
42	-0.01	-12.15	1.6824	-0.0010	0.5209	-0.0006	0.3097	0.2436	0.0004	-0.0277	0.0015	-0.1136
43	-0.01	-12.96	1.7016	-0.0025	0.5200	-0.0015	0.3056	0.1220	0.0	-0.0139	0.0	-0.1139
44	-0.02	-13.71	1.7140	-0.0041	0.5269	-0.0024	0.3074	0.2316	0.0009	-0.0263	0.0039	-0.1134
45	-0.02	-14.60	1.7031	-0.0041	0.5227	-0.0024	0.3069	0.0109	0.0007	-0.0012	0.0620	-0.1072
46	-0.02	-15.38	1.6805	-0.0043	0.5102	-0.0025	0.3036	0.0246	0.0007	-0.0027	0.0275	-0.1099

S15

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 111 1.01 1.7 0.0 82WOF13 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	-0.02	-16.19	1.6437	-0.0041	0.5051	-0.0025	0.3073	0.0380	0.0029	-0.0039	0.0770	-0.1036
48	-0.01	-16.95	1.5612	-0.0034	0.4793	-0.0022	0.3070	-0.0192	0.0005	0.0022	-0.0274	-0.1147
49	0.0	-17.76	1.5833	-0.0051	0.4867	-0.0032	0.3074	-0.0208	0.0017	0.0026	-0.0794	-0.1235
50	-0.02	-18.66	1.5854	-0.0059	0.4880	-0.0037	0.3078	-0.0142	0.0038	0.0021	-0.2642	-0.1457
51	-0.01	-19.42	1.6191	-0.0075	0.4939	-0.0046	0.3050	-0.0061	0.0043	0.0013	-0.7013	-0.2078
52	-0.01	-20.19	1.6083	-0.0080	0.4931	-0.0050	0.3066	-0.0018	0.0032	0.0006	-1.7928	-0.3335

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 111 1.01 1.7			0.0	82WOF13	0.0	20	0	20	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPI3	YCPI3	CNF4	CH4	CH4	XCPI4	YCPI4
1	0.02	19.60	-0.2908	-0.0481	-0.0872	0.1653	0.2998	0.0096	-0.0089	-0.0021	-0.9224	-0.2189
2	0.02	19.10	-0.2954	-0.0466	-0.0849	0.1579	0.2875	0.0112	-0.0104	-0.0025	-0.9247	-0.2204
3	0.02	18.56	-0.2465	-0.0447	-0.0736	0.1812	0.2987	0.0102	-0.0094	-0.0022	-0.9197	-0.2158
4	0.02	17.54	-0.1910	-0.0390	-0.0536	0.2640	0.2808	0.0077	-0.0071	-0.0017	-0.9162	-0.2252
5	0.02	16.79	-0.1293	-0.0320	-0.0324	0.2474	0.2504	0.0052	-0.0048	-0.0012	-0.9237	-0.2245
6	0.02	15.94	-0.0679	-0.0238	-0.0098	0.3504	0.1447	0.0073	-0.0067	-0.0016	-0.9150	-0.2147
7	0.02	15.25	-0.0228	-0.0197	0.0030	0.8624	-0.1317	0.0076	-0.0071	-0.0017	-0.9282	-0.2194
8	0.02	14.43	0.0342	-0.0128	0.0253	-0.3730	0.7396	0.0064	-0.0059	-0.0014	-0.9264	-0.2137
9	0.01	13.80	0.0886	-0.0080	0.0451	-0.0906	0.5093	0.0053	-0.0049	-0.0011	-0.9204	-0.2140
10	0.02	12.84	0.1412	-0.0033	0.0619	-0.0234	0.4381	0.0043	-0.0039	-0.0010	-0.9075	-0.2249
11	0.02	12.19	0.1910	0.0010	0.0835	0.0051	0.4369	0.0052	-0.0048	-0.0012	-0.9237	-0.2245
12	0.01	11.50	0.2651	0.0056	0.1101	0.0210	0.4151	0.0028	-0.0026	-0.0006	-0.9381	-0.2025
13	0.01	10.48	0.3240	0.0084	0.1334	0.0260	0.4117	0.0022	-0.0021	-0.0005	-0.9551	-0.2122
14	0.01	9.75	0.3770	0.0124	0.1615	0.0329	0.4285	0.0015	-0.0014	-0.0003	-0.9006	-0.2001
15	0.01	8.96	0.4596	0.0157	0.1911	0.0341	0.4159	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
16	0.01	8.13	0.5221	0.0177	0.2135	0.0339	0.4097	0.0	0.0	0.0	0.0	0.0
17	0.01	7.35	0.5801	0.0185	0.2338	0.0320	0.4031	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
18	0.0	6.57	0.6517	0.0205	0.2644	0.0315	0.4057	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
19	0.01	5.75	0.7246	0.0210	0.2931	0.0290	0.4045	-0.0001	0.0001	0.0001	-0.7505	-0.6668
20	0.01	4.87	0.7807	0.0209	0.3138	0.0267	0.4019	-0.0006	0.0005	0.0001	-0.8755	-0.1668
21	0.0	4.17	0.8567	0.0201	0.3428	0.0235	0.4001	-0.0018	0.0017	0.0003	-0.9172	-0.1668
22	0.0	3.37	0.9123	0.0191	0.3665	0.0209	0.4018	-0.0016	0.0015	0.0004	-0.9381	-0.2293
23	0.0	2.65	0.9881	0.0166	0.3939	0.0168	0.3786	-0.0027	0.0025	0.0005	-0.9172	-0.1853
24	0.0	1.87	1.0632	0.0158	0.4185	0.0148	0.3936	-0.0037	0.0034	0.0008	-0.9127	-0.2073
25	0.0	1.06	1.1193	0.0161	0.4396	0.0144	0.3927	-0.0032	0.0029	0.0006	-0.9146	-0.1980
26	0.0	0.28	1.1883	0.0165	0.4587	0.0139	0.3860	-0.0039	0.0036	0.0008	-0.9237	-0.2052
27	0.0	-0.44	1.2018	0.0205	0.4587	0.0171	0.3817	-0.0045	0.0042	0.0009	-0.9339	-0.2001
28	0.0	-1.24	1.2415	0.0219	0.4669	0.0176	0.3761	-0.0041	0.0038	0.0008	-0.9152	-0.2034
29	0.0	-2.00	1.2542	0.0213	0.4680	0.0170	0.3732	-0.0046	0.0042	0.0010	-0.9136	-0.2103
30	0.0	-2.83	1.3001	0.0201	0.4764	0.0155	0.3665	-0.0038	0.0035	0.0007	-0.9085	-0.1931
31	0.0	-3.62	1.3193	0.0189	0.4864	0.0143	0.3691	-0.0032	0.0029	0.0006	-0.9146	-0.1980
32	0.0	-4.44	1.3644	0.0182	0.4974	0.0133	0.3645	-0.0032	0.0030	0.0006	-0.9381	-0.1980
33	0.0	-5.21	1.3891	0.0149	0.5076	0.0107	0.3654	-0.0020	0.0019	0.0004	-0.9381	-0.2168
34	0.0	-5.97	1.4328	0.0122	0.5201	0.0085	0.3630	-0.0034	0.0031	0.0007	-0.9050	-0.1962
35	0.0	-6.76	1.4504	0.0104	0.5246	0.0071	0.3617	-0.0028	0.0026	0.0006	-0.9113	-0.2025
36	0.0	-7.56	1.4654	0.0077	0.5268	0.0052	0.3595	-0.0038	0.0035	0.0007	-0.9085	-0.1931
37	0.0	-8.35	1.4794	0.0041	0.5359	0.0028	0.3622	-0.0034	0.0031	0.0007	-0.9050	-0.1962
38	0.0	-9.12	1.4964	0.0018	0.5411	0.0012	0.3616	-0.0020	0.0018	0.0004	-0.9006	-0.2168
39	-0.01	-9.91	1.5158	-0.0005	0.5486	-0.0003	0.3619	-0.0015	0.0014	0.0003	-0.9506	-0.2001
40	-0.01	-10.67	1.5264	-0.0021	0.5539	-0.0014	0.3628	-0.0012	0.0011	0.0003	-0.8755	-0.2501
41	-0.01	-11.45	1.5455	-0.0041	0.5585	-0.0026	0.3616	-0.0009	0.0008	0.0002	-0.9172	-0.2223
42	-0.01	-12.15	1.5462	-0.0055	0.5545	-0.0035	0.3618	-0.0016	0.0014	0.0004	-0.8912	-0.2293
43	-0.01	-12.96	1.5389	-0.0062	0.5571	-0.0040	0.3620	-0.0004	0.0004	0.0001	-0.9381	-0.1668
44	-0.02	-13.71	1.5294	-0.0063	0.5501	-0.0041	0.3596	-0.0014	0.0013	0.0002	-0.9113	-0.1668
45	-0.02	-14.60	1.5058	-0.0062	0.5395	-0.0041	0.3585	-0.0006	0.0006	0.0001	-1.0006	-0.1668
46	-0.02	-15.38	1.5038	-0.0076	0.5401	-0.0050	0.3592	-0.0002	-0.0002	-0.0000	-0.7505	-0.1668

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 111 1.01 1.7 0.0 82WOF13 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.02	-16.19	1.5098	-0.0084	0.5414	-0.0056	0.3586	0.0007	-0.0007	-0.0002	-0.9649	-0.2382
48	-0.01	-16.95	1.5209	-0.0102	0.5478	-0.0067	0.3602	-0.0004	0.0004	0.0001	-0.9381	-0.1668
49	0.0	-17.76	1.5207	-0.0110	0.5479	-0.0073	0.3603	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
50	-0.02	-18.66	1.5288	-0.0124	0.5500	-0.0081	0.3597	0.0007	-0.0007	-0.0002	-0.9649	-0.2382
51	-0.01	-19.42	1.5414	-0.0144	0.5593	-0.0094	0.3628	0.0	0.0	0.0	0.0	0.0
52	-0.01	-20.19	1.5257	-0.0142	0.5493	-0.0093	0.3600	0.0007	-0.0007	-0.0002	-0.9649	-0.2382

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	112	1.05	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.57	-0.1282	0.3714	-2.2724	0.3627	-0.0320	0.1154	-2.8977		
2	0.02	19.19	0.0546	-0.0434	-2.2544	0.1906	-0.0520	0.1164	-0.7956		
3	0.01	18.51	-0.0870	0.1578	-2.0481	0.2367	-0.0400	0.1280	-1.8138		
4	0.0	17.59	-0.1364	0.1769	-2.0739	-0.0881	-0.0290	0.1769	-1.2974		
5	0.01	16.81	-0.0335	0.0389	-1.6048	-0.3100	-0.0420	0.2291	-1.1612		
6	0.01	16.08	-0.1054	0.1765	-1.5121	-0.6737	-0.0210	0.2410	-1.6751		
7	0.0	15.27	-0.1265	0.0791	-1.0306	-1.0859	-0.0200	0.2780	-0.6253		
8	0.02	14.45	-0.0467	0.2583	-1.2729	-1.2725	-0.020	0.3209	-5.5328		
9	0.03	13.59	0.0237	0.0928	-1.1444	-1.5195	-0.0210	0.3253	3.9165		
10	0.0	12.93	-0.0640	0.0396	-0.7925	-2.0211	-0.0170	0.4012	-0.6187		
11	0.01	12.17	-0.0238	0.0783	-0.6756	-2.2487	-0.0170	0.4099	-3.2908		
12	0.02	11.38	-0.0026	0.0346	-0.6771	-2.3686	-0.0210	0.4115	-13.3231		
13	0.01	10.53	-0.0059	-0.0427	-0.4054	-2.7769	-0.0170	0.4567	7.2441		
14	0.01	9.76	0.0002	0.0057	-0.0302	-3.3513	-0.0130	0.5098	28.6000		
15	0.01	9.03	0.0068	-0.0875	0.1046	-3.6280	-0.0200	0.5221	-12.8706		
16	0.01	8.22	-0.0203	-0.0166	0.2783	-4.1091	-0.0160	0.5488	0.8167		
17	0.01	7.34	0.0142	-0.1229	0.3955	-4.3783	-0.0190	0.5779	-8.6535		
18	0.0	6.69	0.0090	-0.1406	0.4549	-4.7434	-0.0160	0.6047	-15.6222		
19	0.01	5.76	0.0148	-0.0907	0.6860	-5.1429	-0.0100	0.6373	-6.1297		
20	0.01	4.96	0.0241	-0.1447	0.8233	-5.4590	-0.0140	0.6593	-6.0058		
21	0.01	4.21	0.0245	-0.1523	1.1620	-5.5553	-0.0100	0.6974	-6.2163		
22	0.0	3.37	-0.0172	-0.0809	1.1314	-6.2423	-0.0030	0.7229	4.7046		
23	0.0	2.66	0.0191	-0.1657	1.2671	-6.5894	-0.0110	0.7445	-8.6775		
24	0.0	1.92	0.0297	-0.2156	1.5686	-7.2644	-0.0110	0.7908	-7.2586		
25	0.0	1.11	0.0177	-0.1708	1.5428	-7.4122	-0.0110	0.8088	-9.6486		
26	0.0	0.38	0.0318	-0.2225	1.7126	-7.8469	-0.0070	0.8303	-6.9975		
27	0.0	-0.42	0.0256	-0.2138	1.8304	-8.1905	-0.0030	0.8544	-8.3531		
28	0.0	-1.22	0.0323	-0.2392	2.0323	-8.6295	-0.0090	0.8724	-7.4062		
29	0.0	-1.98	0.0307	-0.2290	2.0159	-8.7585	-0.0160	0.8866	-7.4586		
30	0.0	-2.80	0.0228	-0.1879	2.1205	-8.9444	0.0110	0.8937	-8.7421		
31	0.0	-3.65	0.0210	-0.1908	2.2602	-9.1135	0.0100	0.9027	-9.0364		
32	0.0	-4.43	0.0324	-0.2633	2.3773	-9.3364	0.0110	0.9179	-8.1284		
33	0.0	-5.18	0.0332	-0.2185	2.5418	-9.6337	0.0060	0.9372	-6.5807		
34	0.0	-5.91	0.0100	-0.1960	2.5881	-9.8105	0.0100	0.9609	-19.6000		
35	0.0	-6.73	0.0182	-0.2025	2.7386	-10.0063	0.0110	0.9730	-11.1253		
36	0.0	-7.52	0.0194	-0.1961	2.7180	-10.0194	0.0140	0.9950	-10.1113		
37	0.0	-8.29	0.0586	-0.2550	2.8246	-10.0857	0.0140	0.9948	-4.3522		
38	0.0	-9.07	0.0309	-0.2212	2.5324	-10.2823	0.0110	1.0141	-7.1605		
39	0.0	-9.89	0.0281	-0.2253	3.0540	-10.4728	0.0110	1.0205	-8.0192		
40	0.0	-10.62	0.0319	-0.2886	3.1890	-10.6408	0.0120	1.0275	-9.0489		
41	0.0	-11.36	0.0314	-0.2629	3.3285	-10.7281	0.0140	1.0243	-8.3745		
42	0.0	-12.13	0.0515	-0.2621	3.2993	-10.7572	0.0150	1.0435	-5.0893		
43	-0.01	-12.88	0.0436	-0.2310	3.4403	-10.8277	0.0030	1.0383	-5.2991		
44	-0.01	-13.68	0.0348	-0.2427	3.5748	-10.8050	0.0080	1.0540	-6.9747		
45	-0.01	-14.51	0.0311	-0.2665	3.4772	-10.6464	0.0060	1.0566	-8.5704		
46	-0.01	-15.31	0.0336	-0.2900	3.8688	-10.7436	0.0210	1.0350	-8.6321		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	112	1.05	1.7	0.0	82WOF13	0.0	20	0	20	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	-0.02	-16.11	0.0182	-0.2814	3.7959	-10.5676	-0.0210	1.0419	-15.4659
48	-0.01	-16.92	-0.0046	-0.2185	3.8344	-10.2045	-0.0300	1.0363	47.5130
49	-0.01	-17.75	0.0476	-0.2426	3.9060	-10.1288	-0.0040	1.0407	-5.0975
50	-0.01	-18.62	0.0222	-0.1711	4.1363	-10.0782	-0.0420	1.0124	-7.7064
51	-0.01	-19.40	0.0458	-0.2681	4.3281	-10.1648	-0.0240	1.0086	-5.8541
52	-0.02	-20.18	0.0310	-0.3484	4.5634	-10.1663	-0.0440	0.9637	-11.2387

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	112	1.05	1.7	0.0	82WDF13	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.57	-0.4745	-0.0630	-0.1224	0.1328	0.2579	-0.0805	0.0032	0.0092	-0.0019	-0.1140
2	0.02	19.19	-0.4682	-0.0630	-0.1208	0.1346	0.2580	-0.0419	0.0020	0.0050	-0.0484	-0.1202
3	0.01	18.51	-0.4126	-0.0604	-0.1027	0.1463	0.2488	-0.0363	0.0009	0.0042	-0.0248	-0.1158
4	0.0	17.59	-0.3582	-0.0556	-0.0807	0.1551	0.2254	-0.0538	0.0011	0.0063	-0.0209	-0.1166
5	0.01	16.81	-0.2783	-0.0502	-0.0591	0.1805	0.2125	-0.0484	0.0018	0.0057	-0.0372	-0.1172
6	0.01	16.08	-0.2200	-0.0426	-0.0364	0.1935	0.1654	-0.0418	0.0023	0.0051	-0.0539	-0.1213
7	0.0	15.27	-0.1542	-0.0348	-0.0165	0.2260	0.1067	-0.0271	0.0022	0.0034	-0.0803	-0.1243
8	0.02	14.45	-0.0911	-0.0261	0.0014	0.2867	-0.0159	-0.0760	-0.0014	0.0085	0.0178	-0.1115
9	0.03	13.59	-0.0354	-0.0194	0.0183	0.5470	-0.5171	0.0106	0.0010	-0.0011	0.0920	-0.1007
10	0.0	12.93	0.0448	-0.0131	0.0421	-0.2915	0.9381	-0.0056	0.0023	0.0009	-0.4154	-0.1668
11	0.01	12.17	0.1032	-0.0076	0.0574	-0.0735	0.5563	-0.0802	0.0022	0.0094	-0.0271	-0.1169
12	0.02	11.38	0.1636	-0.0035	0.0751	-0.0216	0.4592	-0.0668	0.0027	0.0079	-0.0404	-0.1189
13	0.01	10.53	0.2285	0.0023	0.1042	0.0102	0.4558	-0.0720	0.0020	0.0084	-0.0281	-0.1168
14	0.01	9.76	0.3022	0.0071	0.1253	0.0236	0.4147	-0.0797	0.0003	0.0091	-0.0038	-0.1147
15	0.01	9.03	0.3782	0.0115	0.1499	0.0304	0.3964	-0.0600	0.0026	0.0071	-0.0425	-0.1185
16	0.01	8.22	0.4378	0.0150	0.1708	0.0343	0.3901	-0.0875	0.0	0.0099	0.0	-0.1136
17	0.01	7.34	0.5145	0.0181	0.1917	0.0352	0.3727	-0.0851	0.0015	0.0098	-0.0176	-0.1157
18	0.0	6.69	0.5962	0.0214	0.2187	0.0359	0.3668	-0.0732	0.0020	0.0086	-0.0277	-0.1176
19	0.01	5.76	0.6546	0.0235	0.2428	0.0359	0.3710	-0.1062	0.0004	0.0122	-0.0035	-0.1145
20	0.01	4.96	0.7217	0.0247	0.2671	0.0342	0.3701	-0.0943	0.0008	0.0108	-0.0088	-0.1148
21	0.01	4.21	0.8006	0.0251	0.2931	0.0313	0.3661	-0.1063	0.0002	0.0121	-0.0021	-0.1141
22	0.0	3.37	0.8649	0.0251	0.3156	0.0290	0.3649	-0.0887	-0.0011	0.0099	0.0118	-0.1121
23	0.0	2.66	0.9387	0.0223	0.3404	0.0238	0.3626	-0.0890	0.0012	0.0102	-0.0135	-0.1151
24	0.0	1.92	1.0377	0.0193	0.3721	0.0186	0.3586	-0.0810	0.0011	0.0093	-0.0130	-0.1149
25	0.0	1.11	1.0912	0.0183	0.3859	0.0168	0.3537	-0.0983	0.0007	0.0113	-0.0069	-0.1148
26	0.0	0.38	1.1660	0.0164	0.4077	0.0140	0.3496	-0.0944	0.0012	0.0109	-0.0127	-0.1154
27	0.0	-0.42	1.2287	0.0155	0.4252	0.0126	0.3461	-0.1023	0.0012	0.0118	-0.0117	-0.1149
28	0.0	-1.22	1.2418	0.0160	0.4423	0.0124	0.3424	-0.1023	0.0009	0.0118	-0.0088	-0.1149
29	0.0	-1.98	1.3245	0.0182	0.4483	0.0137	0.3384	-0.0890	0.0013	0.0102	-0.0143	-0.1151
30	0.0	-2.80	1.3787	0.0196	0.4620	0.0142	0.3351	-0.1154	-0.0004	0.0131	0.0033	-0.1134
31	0.0	-3.65	1.4096	0.0221	0.4627	0.0157	0.3282	-0.0901	0.0	0.0102	0.0	-0.1130
32	0.0	-4.43	1.4513	0.0213	0.4701	0.0147	0.3239	-0.0876	0.0007	0.0100	-0.0077	-0.1143
33	0.0	-5.18	1.4795	0.0202	0.4771	0.0137	0.3225	-0.0054	0.0005	0.0007	-0.0973	-0.1297
34	0.0	-5.91	1.5168	0.0177	0.4867	0.0117	0.3209	-0.0849	0.0004	0.0097	-0.0044	-0.1144
35	0.0	-6.73	1.5478	0.0161	0.4954	0.0104	0.3200	-0.0531	0.0004	0.0061	-0.0071	-0.1150
36	0.0	-7.52	1.5768	0.0127	0.4980	0.0080	0.3158	-0.0756	0.0002	0.0086	-0.0030	-0.1139
37	0.0	-8.29	1.5870	0.0089	0.4959	0.0056	0.3150	-0.0200	0.0006	0.0023	-0.0300	-0.1168
38	0.0	-9.07	1.6118	0.0062	0.5096	0.0039	0.3161	-0.0798	0.0011	0.0092	-0.0132	-0.1154
39	0.0	-9.89	1.6395	0.0032	0.5207	0.0020	0.3176	0.1502	0.0016	-0.0169	0.0105	-0.1125
40	0.0	-10.62	1.6710	0.0012	0.5274	0.0007	0.3156	-0.0935	0.0029	0.0110	-0.0305	-0.1175
41	0.0	-11.36	1.6734	-0.0013	0.5330	-0.0008	0.3185	-0.0760	0.0014	0.0089	-0.0188	-0.1168
42	0.0	-12.13	1.7057	-0.0038	0.5493	-0.0022	0.3161	-0.0732	0.0002	0.0084	-0.0031	-0.1149
43	-0.01	-12.88	1.7071	-0.0053	0.5397	-0.0031	0.3162	-0.0494	0.0015	0.0057	-0.0304	-0.1162
44	-0.01	-13.68	1.7129	-0.0073	0.5441	-0.0043	0.3176	-0.0815	0.0025	0.0095	-0.0304	-0.1171
45	-0.01	-14.51	1.7133	-0.0077	0.5423	-0.0045	0.3165	-0.0722	0.0024	0.0085	-0.0333	-0.1183
46	-0.01	-15.31	1.7195	-0.0089	0.5420	-0.0052	0.3152	-0.0270	0.0024	0.0034	-0.0889	-0.1260

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 112 1.05 1.7 0.0 B2WDF13 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	C01	XCPF1	YCPF1	CNF2	CH2	C02	XCPF2	YCPF2
47	-0.02	-16.11	1.6529	-0.0083	0.5212	-0.0050	0.3153	-0.0205	0.0043	0.0028	-0.2087	-0.1351
48	-0.01	-16.92	1.6068	-0.0082	0.5060	-0.0051	0.3149	-0.0459	0.0043	0.0057	-0.0932	-0.1243
49	-0.01	-17.75	1.6370	-0.0095	0.5165	-0.0058	0.3155	-0.0322	0.0011	0.0038	-0.0350	-0.1171
50	-0.01	-18.62	1.6031	-0.0104	0.5065	-0.0065	0.3159	0.2108	0.0023	-0.0237	0.0110	-0.1124
51	-0.01	-19.40	1.6185	-0.0111	0.5094	-0.0069	0.3147	0.1642	0.0028	-0.0183	0.0169	-0.1116
52	-0.02	-20.18	1.6183	-0.0127	0.5093	-0.0078	0.3147	0.0325	0.0068	-0.0029	0.2101	-0.0883

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		112	1.05	1.7	0.0	82WOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	19.57	-0.3410	-0.0469	-0.1173	0.1374	0.3441	0.0076	-0.0071	-0.0017	-0.9282	-0.2194
2	0.02	19.19	-0.3100	-0.0476	-0.1078	0.1516	0.3477	0.0011	-0.0010	-0.0002	-0.8869	-0.2122
3	0.01	18.51	-0.2746	-0.0436	-0.0980	0.1588	0.3569	0.0109	-0.0101	-0.0024	-0.9226	-0.2172
4	0.0	17.59	-0.2225	-0.0397	-0.0765	0.1785	0.3440	0.0078	-0.0072	-0.0017	-0.9237	-0.2181
5	0.01	16.81	-0.1668	-0.0350	-0.0546	0.2098	0.3236	0.0108	-0.0100	-0.0023	-0.9242	-0.2131
6	0.01	16.08	-0.1271	-0.0300	-0.0398	0.2358	0.3135	0.0126	-0.0116	-0.0028	-0.9232	-0.2223
7	0.0	15.27	-0.0377	-0.0220	-0.0127	0.5833	0.3359	0.0105	-0.0097	-0.0023	-0.9220	-0.2192
8	0.02	14.45	0.0233	-0.0182	0.0035	-0.7795	0.1487	0.0077	-0.0071	-0.0016	-0.9259	-0.2122
9	0.03	13.59	0.0897	-0.0106	0.0288	-0.1180	0.3210	0.0072	-0.0066	-0.0016	-0.9172	-0.2223
10	0.0	12.93	0.1482	-0.0057	0.0492	-0.0385	0.3319	0.0076	-0.0071	-0.0017	-0.9282	-0.2194
11	0.01	12.17	0.2153	-0.0011	0.0718	-0.0049	0.3337	0.0045	-0.0041	-0.0010	-0.9172	-0.2223
12	0.02	11.38	0.2628	0.0021	0.0927	0.0080	0.3526	0.0037	-0.0034	-0.0009	-0.9127	-0.2344
13	0.01	10.53	0.3426	0.0065	0.1220	0.0188	0.3560	0.0021	-0.0019	-0.0005	-0.8934	-0.2382
14	0.01	9.76	0.4098	0.0096	0.1494	0.0235	0.3645	0.0013	-0.0011	-0.0003	-0.8659	-0.2052
15	0.01	9.03	0.4610	0.0128	0.1775	0.0279	0.3851	0.0010	-0.0010	-0.0002	-0.9756	-0.1668
16	0.01	8.22	0.5168	0.0149	0.2018	0.0289	0.3905	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
17	0.01	7.34	0.5954	0.0175	0.2286	0.0294	0.3840	-0.0002	0.0002	0.0000	-1.1257	-0.1668
18	0.0	6.69	0.6536	0.0191	0.2552	0.0292	0.3905	-0.0003	-0.0003	-0.0001	-1.0006	-0.3335
19	0.01	5.76	0.7249	0.0195	0.2810	0.0269	0.3876	-0.0006	0.0005	0.0001	-0.8755	-0.1668
20	0.01	4.96	0.7920	0.0198	0.3021	0.0250	0.3815	-0.0008	0.0008	0.0001	-0.9381	-0.1668
21	0.01	4.21	0.8506	0.0194	0.3243	0.0229	0.3813	-0.0012	0.0011	0.0002	-0.9381	-0.1668
22	0.0	3.37	0.9174	0.0176	0.3510	0.0192	0.3826	-0.0012	0.0011	0.0002	-0.9381	-0.1668
23	0.0	2.66	0.9889	0.0162	0.3769	0.0164	0.3811	-0.0025	0.0023	0.0005	-0.9306	-0.1868
24	0.0	1.92	1.0709	0.0126	0.4072	0.0118	0.3802	-0.0025	0.0023	0.0005	-0.9306	-0.1868
25	0.0	1.11	1.1341	0.0107	0.4302	0.0094	0.3794	-0.0021	0.0019	0.0004	-0.8934	-0.1906
26	0.0	0.38	1.1887	0.0113	0.4522	0.0095	0.3804	-0.0031	0.0029	0.0006	-0.9441	-0.1829
27	0.0	-0.42	1.2445	0.0110	0.4717	0.0088	0.3790	-0.0029	0.0027	0.0005	-0.9316	-0.1840
28	0.0	-1.22	1.3111	0.0114	0.4892	0.0087	0.3731	-0.0021	0.0020	0.0004	-0.9291	-0.1906
29	0.0	-1.98	1.3488	0.0109	0.5057	0.0081	0.3749	-0.0030	0.0027	0.0006	-0.9006	-0.2001
30	0.0	-2.80	1.3611	0.0137	0.5017	0.0101	0.3686	-0.0021	0.0019	0.0004	-0.8934	-0.1906
31	0.0	-3.65	1.3785	0.0168	0.4940	0.0122	0.3584	-0.0012	0.0011	0.0002	-0.9381	-0.1668
32	0.0	-4.43	1.4167	0.0158	0.5023	0.0111	0.3545	-0.0025	0.0023	0.0005	-0.9306	-0.1868
33	0.0	-5.18	1.4464	0.0142	0.5146	0.0098	0.3558	-0.0023	0.0021	0.0004	-0.9136	-0.1885
34	0.0	-5.91	1.4842	0.0130	0.5235	0.0088	0.3527	-0.0023	0.0021	0.0004	-0.9136	-0.1885
35	0.0	-6.73	1.5097	0.0122	0.5313	0.0081	0.3519	-0.0014	0.0013	0.0003	-0.9113	-0.2382
36	0.0	-7.52	1.5256	0.0084	0.5302	0.0055	0.3475	-0.0021	0.0020	0.0004	-0.9291	-0.1906
37	0.0	-8.29	1.5408	0.0060	0.5348	0.0039	0.3471	-0.0029	0.0026	0.0006	-0.9057	-0.2185
38	0.0	-9.07	1.5670	0.0038	0.5430	0.0024	0.3466	-0.0021	0.0020	0.0004	-0.9291	-0.1906
39	0.0	-9.89	1.5820	0.0006	0.5537	0.0004	0.3500	-0.0006	0.0005	0.0001	-0.8755	-0.1668
40	0.0	-10.62	1.6110	-0.0015	0.5605	-0.0009	0.3479	-0.0017	0.0016	0.0003	-0.9270	-0.1962
41	0.0	-11.36	1.6204	-0.0041	0.5625	-0.0025	0.3472	-0.0011	0.0011	0.0002	-0.9551	-0.2122
42	0.0	-12.13	1.6482	-0.0057	0.5666	-0.0035	0.3438	-0.0014	0.0013	0.0003	-0.9113	-0.2382
43	-0.01	-12.88	1.6449	-0.0074	0.5696	-0.0045	0.3463	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
44	-0.01	-13.68	1.6706	-0.0084	0.5713	-0.0053	0.3420	0.0007	-0.0006	-0.0002	-0.8577	-0.2382
45	-0.01	-14.31	1.6693	-0.0103	0.5733	-0.0062	0.3435	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
46	-0.01	-15.31	1.6166	-0.0101	0.5591	-0.0063	0.3458	0.0005	-0.0005	-0.0001	-0.9006	-0.2668

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART		MACH	RATIO-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		112	1.05	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.02	-16.11	1.6236	-0.0114	0.5623	-0.0070	0.3463	0.0018	-0.0017	-0.0004	-0.9589	-0.2223
48	-0.01	-16.92	1.6144	-0.0122	0.5617	-0.0076	0.3480	0.0010	-0.0010	-0.0002	-0.9756	-0.1668
49	-0.01	-17.75	1.5979	-0.0127	0.5540	-0.0079	0.3467	0.0013	-0.0012	-0.0003	-0.9237	-0.2052
50	-0.01	-18.62	1.6119	-0.0143	0.5596	-0.0089	0.3472	0.0019	-0.0017	-0.0005	-0.9085	-0.2457
51	-0.01	-19.40	1.6017	-0.0146	0.5524	-0.0091	0.3449	0.0	0.0	0.0	0.0	0.0
52	-0.02	-20.18	1.6314	-0.0170	0.5649	-0.0104	0.3463	0.0008	-0.0008	-0.0001	-0.9381	-0.1668

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			113	1.10	1.7	0.0	82WOF13	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	0.03	19.55	-0.0169	0.2986	-2.5732	0.4868	-0.0490	0.1160	-17.6722				
2	0.04	19.24	-0.0197	0.3865	-2.6246	0.4088	-0.0290	0.1234	-19.6233				
3	0.02	18.53	-0.0966	0.2532	-2.2905	0.6226	-0.0320	0.1376	-2.6215				
4	0.04	17.67	0.0061	0.2724	-2.2686	0.0525	-0.0320	0.1479	44.6656				
5	0.01	17.00	-0.1640	0.3616	-1.8245	-0.0584	-0.0210	0.1883	-2.2049				
6	0.01	16.12	-0.0845	0.2013	-1.6490	-0.5251	-0.0330	0.2513	-2.3822				
7	0.01	15.28	-0.0916	0.2012	-1.4215	-0.7815	-0.0210	0.2617	-2.1969				
8	0.02	14.46	-0.0370	0.1338	-1.1365	-1.4536	-0.0240	0.3413	-3.6162				
9	0.02	13.91	-0.0383	0.1436	-1.0253	-1.5152	-0.0140	0.3564	-3.7439				
10	0.02	13.01	-0.0080	0.1232	-0.9720	-1.6278	-0.0190	0.3529	-15.4000				
11	0.02	12.23	-0.0313	0.1468	-0.6794	-1.9934	-0.0170	0.4022	-4.6907				
12	0.02	11.50	-0.0116	0.1512	-0.4470	-2.5407	-0.0130	0.4440	-13.0379				
13	0.03	10.59	0.0234	0.1792	-0.6341	-2.6908	-0.0070	0.4583	7.6598				
14	0.01	9.84	-0.0358	0.0811	-0.2819	-3.0509	-0.0130	0.4802	-2.2659				
15	0.01	9.03	-0.0378	0.1089	-0.1669	-3.3389	-0.0110	0.5118	-2.8815				
16	0.01	8.29	-0.0596	0.1444	0.2341	-3.9722	-0.0070	0.5691	-2.4235				
17	0.02	7.51	0.0047	0.0854	0.2627	-4.2072	-0.0130	0.5825	18.1745				
18	0.01	6.71	-0.0641	0.1667	0.5714	-4.6645	-0.0040	0.6196	-2.6012				
19	0.02	5.95	0.0002	0.0247	0.7220	-5.0533	-0.0140	0.6501	123.6000				
20	0.01	5.02	-0.0174	0.0204	0.8484	-5.4142	-0.0100	0.6811	-1.1701				
21	0.01	4.28	0.0344	-0.0991	0.9319	-5.7570	-0.0150	0.7055	-2.6826				
22	0.01	3.49	-0.0140	-0.0154	0.9774	-5.9157	-0.0090	0.7312	1.1000				
23	0.01	2.68	-0.0011	-0.0195	1.2106	-6.5543	-0.0100	0.7708	17.6909				
24	0.01	1.94	0.0013	-0.0348	1.2658	-6.6755	-0.0110	0.7833	-26.7846				
25	0.01	1.09	0.0245	-0.1053	1.3643	-7.1414	-0.0100	0.8189	-4.2480				
26	0.01	0.46	-0.0186	-0.0230	1.5694	-7.5534	0.0020	0.8364	1.2344				
27	0.01	-0.32	0.0149	-0.0768	1.8946	-8.0897	-0.0020	0.8665	-5.1584				
28	0.0	-1.15	0.0288	-0.1333	1.9370	-8.4141	-0.0070	0.8821	-4.6292				
29	-0.01	-1.85	0.0110	-0.1004	2.0886	-8.6843	-0.0040	0.8924	-9.1273				
30	0.0	-2.75	0.0249	-0.0988	2.1230	-8.8845	0.0040	0.9094	-3.9703				
31	-0.01	-3.58	0.0237	-0.1262	2.2800	-9.2294	0.0070	0.9294	-5.3240				
32	-0.01	-4.36	-0.0019	-0.1153	2.4117	-9.4556	0.0150	0.9369	60.7052				
33	-0.01	-5.16	-0.0012	-0.0873	2.4656	-9.5320	0.0120	0.9518	72.1666				
34	-0.01	-5.90	0.0315	-0.1624	2.5675	-9.7716	0.0150	0.9676	-4.8627				
35	0.0	-6.72	0.0172	-0.0981	2.5244	-9.6803	0.0140	0.9836	-5.7023				
36	0.0	-7.51	0.0209	-0.1062	2.6352	-9.8484	0.0160	0.9891	-5.0342				
37	0.0	-8.27	0.0509	-0.1672	2.9604	-10.1378	0.0160	1.0001	-3.2860				
38	-0.01	-9.04	-0.0043	-0.0710	2.9224	-10.1746	0.0100	1.0259	16.5070				
39	0.0	-9.85	0.0201	-0.0651	3.0040	-10.2918	0.0090	1.0332	-3.2408				
40	-0.01	-10.66	-0.0040	-0.0804	3.0364	-10.2692	0.0110	1.0451	20.1000				
41	-0.01	-11.43	0.0091	-0.1617	3.1073	-10.4224	0.0160	1.0570	-17.7736				
42	0.0	-12.16	0.0104	-0.0386	3.4470	-10.7741	0.0080	1.0412	-3.7077				
43	-0.01	-12.95	-0.0141	-0.0313	3.5179	-10.7683	0.0010	1.0483	2.2170				
44	0.0	-13.69	-0.0005	-0.0353	3.5900	-10.8103	-0.0020	1.0541	70.6000				
45	-0.02	-14.46	0.0085	-0.2319	3.6504	-10.7249	-0.0050	1.0598	-27.2823				
46	-0.01	-15.33	0.0522	-0.1981	3.7657	-10.7013	0.0020	1.0691	-3.7946				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 113		1.10	1.7	0.0	B2WOF13	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	-0.01	-16.07	0.0602	-0.2123	4.0203	-10.8637	0.0	1.0284	-3.5262		
48	0.0	-16.88	0.0323	-0.1322	3.9488	-10.3827	-0.0170	1.0400	-4.0935		
49	0.0	-17.68	0.0065	-0.0481	4.2702	-10.6107	-0.0560	1.0329	-7.4000		
50	0.0	-18.58	0.0044	-0.0332	4.2182	-10.5219	-0.0310	1.0394	-7.5364		
51	0.0	-19.35	0.0009	-0.0493	4.3549	-10.2064	-0.0430	1.0659	-54.7333		
52	0.0	-20.10	0.0993	-0.2280	4.4206	-10.2593	-0.0740	1.0547	-2.2963		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	113	1-10	1.7	0-0	B2WOF 13	0-0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.03	19.55	-0.5002	-0.0612	-0.1096	0.1224	0.2192	9.9999	9.9999	9.9999	9.9999	9.9999
2	0.04	19.24	-0.5103	-0.0604	-0.1090	0.1183	0.2136	9.9999	9.9999	9.9999	9.9999	9.9999
3	0.02	18.53	-0.4870	-0.0591	-0.1044	0.1214	0.2145	9.9999	9.9999	9.9999	9.9999	9.9999
4	0.04	17.67	-0.4243	-0.0552	-0.0814	0.1301	0.1917	9.9999	9.9999	9.9999	9.9999	9.9999
5	0.01	17.00	-0.3738	-0.0526	-0.0652	0.1406	0.1745	9.9999	9.9999	9.9999	9.9999	9.9999
6	0.01	16.12	-0.3071	-0.0461	-0.0437	0.1501	0.1423	9.9999	9.9999	9.9999	9.9999	9.9999
7	0.01	15.28	-0.2235	-0.0340	-0.0212	0.1743	0.0946	9.9999	9.9999	9.9999	9.9999	9.9999
8	0.02	14.46	-0.1567	-0.0310	0.0003	0.1979	-0.0020	9.9999	9.9999	9.9999	9.9999	9.9999
9	0.02	13.91	-0.0781	-0.0236	0.0151	0.3017	-0.1930	9.9999	9.9999	9.9999	9.9999	9.9999
10	0.02	13.01	-0.0284	-0.0176	0.0333	0.6183	-1.1703	9.9999	9.9999	9.9999	9.9999	9.9999
11	0.02	12.23	0.0335	-0.0104	0.0560	-0.3114	1.6705	9.9999	9.9999	9.9999	9.9999	9.9999
12	0.02	11.50	0.0978	-0.0062	0.0801	-0.0630	0.8194	9.9999	9.9999	9.9999	9.9999	9.9999
13	0.03	10.59	0.1573	-0.0022	0.0970	-0.0138	0.6169	9.9999	9.9999	9.9999	9.9999	9.9999
14	0.01	9.84	0.2317	0.0023	0.1218	0.0100	0.5258	9.9999	9.9999	9.9999	9.9999	9.9999
15	0.01	9.03	0.2976	0.0068	0.1409	0.0230	0.4734	9.9999	9.9999	9.9999	9.9999	9.9999
16	0.01	8.29	0.3827	0.0111	0.1743	0.0290	0.4556	9.9999	9.9999	9.9999	9.9999	9.9999
17	0.02	7.51	0.4419	0.0143	0.1912	0.0325	0.4326	9.9999	9.9999	9.9999	9.9999	9.9999
18	0.01	6.71	0.5258	0.0179	0.2166	0.0340	0.4120	9.9999	9.9999	9.9999	9.9999	9.9999
19	0.02	5.95	0.5868	0.0198	0.2400	0.0338	0.4089	9.9999	9.9999	9.9999	9.9999	9.9999
20	0.01	5.02	0.6804	0.0216	0.2717	0.0317	0.3994	9.9999	9.9999	9.9999	9.9999	9.9999
21	0.01	4.28	0.7404	0.0219	0.2952	0.0295	0.3988	9.9999	9.9999	9.9999	9.9999	9.9999
22	0.01	3.49	0.7985	0.0216	0.3121	0.0270	0.3909	9.9999	9.9999	9.9999	9.9999	9.9999
23	0.01	2.68	0.8916	0.0197	0.3452	0.0221	0.3872	9.9999	9.9999	9.9999	9.9999	9.9999
24	0.01	1.94	0.9402	0.0182	0.3603	0.0194	0.3832	9.9999	9.9999	9.9999	9.9999	9.9999
25	0.01	1.09	1.0327	0.0156	0.3842	0.0151	0.3721	9.9999	9.9999	9.9999	9.9999	9.9999
26	0.01	0.46	1.0809	0.0143	0.4007	0.0133	0.3707	9.9999	9.9999	9.9999	9.9999	9.9999
27	0.01	-0.32	1.1642	0.0119	0.4208	0.0102	0.3614	9.9999	9.9999	9.9999	9.9999	9.9999
28	0.0	-1.15	1.2428	0.0093	0.4447	0.0075	0.3579	9.9999	9.9999	9.9999	9.9999	9.9999
29	-0.01	-1.85	1.2884	0.0091	0.4591	0.0071	0.3564	9.9999	9.9999	9.9999	9.9999	9.9999
30	0.0	-2.75	1.3183	0.0123	0.4616	0.0093	0.3501	9.9999	9.9999	9.9999	9.9999	9.9999
31	-0.01	-3.58	1.3995	0.0129	0.4802	0.0092	0.3432	9.9999	9.9999	9.9999	9.9999	9.9999
32	-0.01	-4.36	1.4181	0.0142	0.4858	0.0100	0.3426	9.9999	9.9999	9.9999	9.9999	9.9999
33	-0.01	-5.16	1.4413	0.0147	0.4862	0.0102	0.3373	9.9999	9.9999	9.9999	9.9999	9.9999
34	-0.01	-5.90	1.4799	0.0134	0.4954	0.0091	0.3348	9.9999	9.9999	9.9999	9.9999	9.9999
35	0.0	-6.72	1.5118	0.0117	0.5017	0.0077	0.3318	9.9999	9.9999	9.9999	9.9999	9.9999
36	0.0	-7.51	1.5332	0.0104	0.5065	0.0068	0.3306	9.9999	9.9999	9.9999	9.9999	9.9999
37	0.0	-8.27	1.5616	0.0079	0.5101	0.0050	0.3267	9.9999	9.9999	9.9999	9.9999	9.9999
38	-0.01	-9.04	1.5700	0.0038	0.5135	0.0024	0.3271	9.9999	9.9999	9.9999	9.9999	9.9999
39	0.0	-9.85	1.6031	0.0014	0.5234	0.0009	0.3265	9.9999	9.9999	9.9999	9.9999	9.9999
40	-0.01	-10.66	1.6300	-0.0008	0.5321	-0.0005	0.3265	9.9999	9.9999	9.9999	9.9999	9.9999
41	-0.01	-11.43	1.6571	-0.0033	0.5386	-0.0020	0.3252	9.9999	9.9999	9.9999	9.9999	9.9999
42	0.0	-12.16	1.6785	-0.0063	0.5465	-0.0038	0.3258	9.9999	9.9999	9.9999	9.9999	9.9999
43	-0.01	-12.95	1.6947	-0.0089	0.5487	-0.0052	0.3238	9.9999	9.9999	9.9999	9.9999	9.9999
44	0.0	-13.69	1.7048	-0.0104	0.5543	-0.0061	0.3251	9.9999	9.9999	9.9999	9.9999	9.9999
45	-0.02	-14.46	1.7015	-0.0117	0.5535	-0.0069	0.3253	9.9999	9.9999	9.9999	9.9999	9.9999
46	-0.01	-15.33	1.7154	-0.0129	0.5560	-0.0075	0.3241	9.9999	9.9999	9.9999	9.9999	9.9999

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 113 1.10 1.7 0.0 B2WOF13 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	-0.01	-16.07	1.7168	-0.0143	0.5539	-0.0084	0.3226	9.9999	9.9999	9.9999	9.9999	9.9999
48	0.0	-16.88	1.6371	-0.0133	0.5310	-0.0081	0.3244	9.9999	9.9999	9.9999	9.9999	9.9999
49	0.0	-17.68	1.6101	-0.0140	0.5217	-0.0087	0.3240	9.9999	9.9999	9.9999	9.9999	9.9999
50	0.0	-18.58	1.6406	-0.0158	0.5342	-0.0096	0.3256	9.9999	9.9999	9.9999	9.9999	9.9999
51	0.0	-19.35	1.6268	-0.0167	0.5271	-0.0102	0.3240	9.9999	9.9999	9.9999	9.9999	9.9999
52	0.0	-20.10	1.6358	-0.0176	0.5283	-0.0108	0.3229	9.9999	9.9999	9.9999	9.9999	9.9999

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 113 1.10 1.7 0.0 B2WOF13 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.03	19.55	-0.2762	-0.0403	-0.1264	0.1460	0.4579	0.0169	-0.0156	-0.0037	-0.9237	-0.2171
2	0.04	19.24	-0.2465	-0.0401	-0.1220	0.1626	0.4947	0.0124	-0.0115	-0.0027	-0.9260	-0.2152
3	0.02	18.53	-0.2371	-0.0394	-0.1143	0.1662	0.4822	0.0088	-0.0082	-0.0019	-0.9296	-0.2122
4	0.04	17.67	-0.1750	-0.0360	-0.0911	0.2060	0.5208	0.0163	-0.0151	-0.0036	-0.9254	-0.2189
5	0.01	17.00	-0.1262	-0.0325	-0.0731	0.2577	0.5791	0.0143	-0.0132	-0.0031	-0.9237	-0.2192
6	0.01	16.12	-0.0525	-0.0272	-0.0529	0.5175	1.0075	0.0150	-0.0138	-0.0033	-0.9206	-0.2201
7	0.01	15.28	0.0023	-0.0216	-0.0332	-9.3645	-14.4059	0.0122	-0.0113	-0.0026	-0.9289	-0.2160
8	0.02	14.46	0.0769	-0.0143	-0.0084	-0.1864	-0.1089	0.0094	-0.0087	-0.0021	-0.9261	-0.2200
9	0.02	13.91	0.1414	-0.0097	0.0095	-0.0685	0.0671	0.0074	-0.0068	-0.0016	-0.9229	-0.2208
10	0.02	13.01	0.1954	-0.0045	0.0299	-0.0231	0.1530	0.0092	-0.0086	-0.0020	-0.9299	-0.2211
11	0.02	12.23	0.2565	0.0	0.0482	0.0	0.1877	0.0074	-0.0068	-0.0016	-0.9229	-0.2208
12	0.02	11.50	0.3113	0.0038	0.0783	0.0121	0.2516	0.0079	-0.0074	-0.0017	-0.9310	-0.2111
13	0.03	10.59	0.3735	0.0064	0.1001	0.0171	0.2681	0.0058	-0.0053	-0.0013	-0.9187	-0.2185
14	0.01	9.84	0.4442	0.0103	0.1247	0.0232	0.2807	0.0057	-0.0053	-0.0012	-0.9216	-0.2106
15	0.01	9.03	0.4975	0.0134	0.1519	0.0270	0.3053	0.0039	-0.0035	-0.0009	-0.9044	-0.2309
16	0.01	8.29	0.5770	0.0168	0.1834	0.0291	0.3178	0.0041	-0.0038	-0.0009	-0.9152	-0.2278
17	0.02	7.51	0.6274	0.0184	0.2046	0.0293	0.3260	0.0032	-0.0030	-0.0006	-0.9381	-0.1980
18	0.01	6.71	0.7055	0.0197	0.2332	0.0279	0.3305	0.0025	-0.0023	-0.0006	-0.9006	-0.2268
19	0.02	5.95	0.7701	0.0209	0.2580	0.0272	0.3350	0.0027	-0.0026	-0.0006	-0.9450	-0.2223
20	0.01	5.02	0.8439	0.0219	0.2882	0.0260	0.3415	0.0018	-0.0017	-0.0004	-0.9172	-0.2223
21	0.01	4.28	0.9126	0.0211	0.3161	0.0231	0.3464	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
22	0.01	3.49	0.9621	0.0200	0.3307	0.0208	0.3437	-0.0001	0.0001	0.0001	-0.7505	-0.6668
23	0.01	2.68	1.0367	0.0186	0.3591	0.0180	0.3464	-0.0003	0.0003	0.0000	-1.0006	-0.0001
24	0.01	1.94	1.0979	0.0155	0.3823	0.0141	0.3483	-0.0006	0.0005	0.0001	-0.8755	-0.1668
25	0.01	1.09	1.1627	0.0123	0.4121	0.0106	0.3544	-0.0012	0.0011	0.0003	-0.8755	-0.2501
26	0.01	0.46	1.2072	0.0118	0.4255	0.0098	0.3524	-0.0011	0.0011	0.0002	-0.9551	-0.2122
27	0.01	-0.32	1.2851	0.0100	0.4480	0.0078	0.3486	-0.0003	0.0003	0.0000	-1.0006	-0.0001
28	0.0	-1.15	1.3500	0.0095	0.4713	0.0071	0.3491	-0.0008	0.0008	0.0001	-0.9381	-0.1668
29	-0.01	-1.85	1.3954	0.0083	0.4877	0.0059	0.3485	-0.0004	0.0004	0.0001	-0.9381	-0.1668
30	0.0	-2.75	1.4137	0.0104	0.4855	0.0074	0.3434	-0.0006	0.0006	0.0001	-1.0006	-0.1668
31	-0.01	-3.58	1.4622	0.0120	0.4983	0.0082	0.3408	-0.0001	0.0001	0.0001	-0.7505	-0.6668
32	-0.01	-4.36	1.4716	0.0143	0.4997	0.0097	0.3395	0.0002	-0.0002	-0.0000	-1.1257	-0.1668
33	-0.01	-5.16	1.5003	0.0137	0.5062	0.0091	0.3374	0.0	0.0	0.0	0.0	0.0
34	-0.01	-5.90	1.5409	0.0116	0.5111	0.0076	0.3317	-0.0013	0.0012	0.0003	-0.9237	-0.2052
35	0.0	-6.72	1.5794	0.0108	0.5194	0.0068	0.3288	-0.0001	0.0001	0.0001	-0.7505	-0.6668
36	0.0	-7.51	1.5899	0.0107	0.5243	0.0068	0.3298	0.0	0.0	0.0	0.0	0.0
37	0.0	-8.27	1.6179	0.0088	0.5249	0.0054	0.3244	-0.0017	0.0016	0.0003	-0.7270	-0.1962
38	-0.01	-9.04	1.6352	0.0064	0.5287	0.0039	0.3233	0.0016	-0.0014	-0.0004	-0.8912	-0.2293
39	0.0	-9.85	1.6642	0.0038	0.5408	0.0023	0.3250	0.0019	-0.0017	-0.0004	-0.9085	-0.1931
40	-0.01	-10.66	1.6623	0.0013	0.5487	0.0008	0.3261	0.0005	-0.0005	-0.0001	-0.9006	-0.2668
41	-0.01	-11.43	1.7136	-0.0020	0.5542	-0.0012	0.3234	-0.0003	0.0003	0.0000	-1.0006	-0.0001
42	0.0	-12.16	1.7279	-0.0040	0.5592	-0.0023	0.3236	0.0025	-0.0023	-0.0006	-0.9006	-0.2268
43	-0.01	-12.95	1.7303	-0.0062	0.5611	-0.0036	0.3243	0.0032	-0.0030	-0.0006	-0.9381	-0.1980
44	0.0	-13.69	1.7550	-0.0080	0.5672	-0.0045	0.3232	0.0039	-0.0036	-0.0009	-0.9237	-0.2309
45	-0.02	-14.46	1.7470	-0.0095	0.5699	-0.0055	0.3262	0.0022	-0.0020	-0.0005	-0.9210	-0.2122
46	-0.01	-15.33	1.7635	-0.0108	0.5717	-0.0061	0.3242	0.0018	-0.0017	-0.0004	-0.9172	-0.2223

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 113 1.10 1.7 0.0 B2WOF13 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.01	-16.07	1.7576	-0.0122	0.5722	-0.0070	0.3256	0.0014	-0.0013	-0.0003	-0.9113	-0.2382
48	0.0	-16.88	1.7462	-0.0132	0.5701	-0.0076	0.3265	0.0016	-0.0014	-0.0004	-0.8912	-0.2293
49	0.0	-17.68	1.7680	-0.0149	0.5790	-0.0085	0.3275	0.0024	-0.0022	-0.0005	-0.9068	-0.2085
50	0.0	-18.58	1.7248	-0.0148	0.5633	-0.0086	0.3266	0.0037	-0.0034	-0.0009	-0.9127	-0.2344
51	0.0	-19.35	1.8073	-0.0181	0.5879	-0.0100	0.3253	0.0050	-0.0046	-0.0011	-0.9156	-0.2268
52	0.0	-20.10	1.7973	-0.0188	0.5870	-0.0105	0.3266	0.0022	-0.0020	-0.0005	-0.9210	-0.2122

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			114	0.85	1.7	0.0	BZWOFL2	0.0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.70	0.0284	-0.0398	-1.9966	0.1426	-0.0120	-0.0763	-1.4000		
2	0.02	19.28	0.0342	-0.1049	-1.9515	0.1225	-0.0120	-0.0709	-3.0667		
3	0.02	18.46	0.0475	-0.1295	-1.8322	-0.1216	-0.0280	-0.0465	-2.7263		
4	0.02	17.62	0.0630	-0.1322	-1.6357	-0.3807	-0.0260	-0.0200	-2.0984		
5	0.02	16.78	0.0509	-0.1552	-1.5031	-0.6203	-0.0340	0.0090	-3.0503		
6	0.02	16.03	0.0012	0.0233	-1.2896	-0.9422	-0.0120	0.0410	19.4333		
7	0.02	15.22	0.0475	-0.0955	-1.1247	-1.1611	-0.0180	0.0705	-2.0105		
8	0.02	14.47	0.0034	-0.0368	-0.9463	-1.4399	-0.0090	0.0938	-10.8118		
9	0.03	13.66	0.0268	-0.0315	-0.8215	-1.6325	-0.0110	0.1187	-1.1761		
10	0.03	12.92	0.0468	-0.0825	-0.6557	-1.9106	-0.0080	0.1434	-1.7632		
11	0.02	12.13	0.0214	-0.0670	-0.5409	-2.1473	-0.0020	0.1648	-3.1290		
12	0.02	11.39	0.0132	-0.0535	-0.3814	-2.4627	-0.0040	0.1906	-4.0515		
13	0.02	10.59	0.0119	-0.0197	-0.2215	-2.8225	0.0080	0.2190	-1.6521		
14	0.03	9.75	0.0294	-0.0662	-0.0442	-3.2347	0.0110	0.2526	-2.2503		
15	0.02	8.99	0.0231	-0.0773	0.1398	-3.5253	0.0060	0.2799	-3.3480		
16	0.02	8.16	0.0262	-0.1347	0.2679	-3.9105	0.0020	0.3068	-5.1405		
17	0.02	7.37	0.0510	-0.1614	0.4322	-4.2957	0.0050	0.3349	-3.1647		
18	0.02	6.56	0.0586	-0.1870	0.5475	-4.7060	0.0060	0.3629	-3.1918		
19	0.02	5.76	0.0574	-0.1933	0.6795	-5.0608	0.0060	0.3920	-3.3686		
20	0.02	4.92	0.0386	-0.1580	0.8974	-5.5148	0.0040	0.4246	-4.0943		
21	0.02	4.15	0.0369	-0.1566	1.0273	-5.8936	0.0010	0.4555	-4.2455		
22	0.02	3.35	0.0400	-0.1630	1.2087	-6.3236	-0.0010	0.4820	-4.0750		
23	0.02	2.62	0.0312	-0.1527	1.3283	-6.6530	-0.0020	0.5055	-4.8936		
24	0.02	1.81	0.0491	-0.1637	1.4536	-6.9574	0.0030	0.5263	-3.3348		
25	0.02	1.05	0.0462	-0.1527	1.5534	-7.3061	-0.0010	0.5472	-3.3048		
26	0.02	0.29	0.0334	-0.1597	1.6973	-7.5915	0.0	0.5623	-4.7832		
27	0.02	-0.45	0.0369	-0.1676	1.8086	-7.8963	0.0020	0.5835	-4.5436		
28	0.02	-1.27	0.0573	-0.2122	1.9027	-8.1490	0.0	0.5998	-3.7037		
29	0.02	-2.06	0.0512	-0.2137	2.0365	-8.4234	0.0	0.6163	-4.1734		
30	0.02	-2.88	0.0501	-0.1911	2.2130	-8.7415	-0.0030	0.6392	-3.8152		
31	0.02	-3.68	0.0364	-0.1859	2.3583	-9.0049	-0.0040	0.6562	-5.1088		
32	0.02	-4.50	0.0481	-0.1913	2.3371	-8.8562	0.0070	0.6567	-3.9780		
33	0.02	-5.23	0.0477	-0.1498	2.3754	-8.6758	0.0030	0.6718	-3.1400		
34	0.02	-6.04	0.0572	-0.2081	2.4041	-8.7500	0.0070	0.6959	-3.6378		
35	0.02	-6.77	0.0623	-0.2022	2.5147	-8.6919	0.0140	0.7068	-3.2459		
36	0.02	-7.58	0.0660	-0.2074	2.5003	-8.5237	0.0110	0.7011	-3.1424		
37	0.02	-8.38	0.0706	-0.2728	2.4711	-8.1149	0.0250	0.7017	-3.8646		
38	0.02	-9.12	0.0399	-0.1518	2.4873	-7.9646	0.0050	0.6934	-3.8060		
39	0.02	-9.95	0.0576	-0.2056	2.6097	-8.1489	0.0060	0.7089	-3.5701		
40	0.02	-10.69	0.0344	-0.1361	2.7348	-8.2412	0.0	0.7171	-3.9581		
41	0.02	-11.45	0.0718	-0.3095	2.7981	-8.2968	0.0160	0.7259	-4.3109		
42	0.02	-12.20	0.0620	-0.1998	2.8588	-8.3588	0.0100	0.7403	-3.2226		
43	0.02	-13.00	0.0555	-0.1727	2.9580	-8.3737	0.0050	0.7420	-3.1117		
44	0.02	-13.78	0.0642	-0.2358	3.0672	-8.4315	0.0040	0.7496	-3.6741		
45	0.02	-14.65	0.0349	-0.1628	3.1922	-8.5185	-0.0050	0.7549	-4.6665		
46	0.02	-15.47	0.0685	-0.2689	3.3062	-8.5561	0.0010	0.7441	-3.9255		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	114	0.85	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	-16.25	0.0237	-0.1062	3.4335	-8.7029	-0.0120	0.7421	-4.4802
48	0.02	-17.10	0.0377	-0.1618	3.5419	-8.9532	-0.0180	0.7407	-4.2912
49	0.01	-17.95	0.0846	-0.3544	3.6726	-9.0582	-0.0010	0.7208	-4.1896
50	0.02	-18.81	0.0420	-0.2718	3.8476	-9.1001	-0.0060	0.7210	-6.4714
51	0.02	-19.59	-0.0173	-0.0478	4.0127	-9.3623	-0.0280	0.7234	2.7618
52	0.02	-20.42	0.0625	-0.2035	4.1932	-9.5759	-0.0180	0.7157	-3.2560

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 114 0.85 1.7				0.0	B2WOF12	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.70	-0.2421	-0.0241	-0.0844	0.0997	0.3485	-0.0020	0.0011	0.0080	-0.5749	-4.0168
2	0.02	19.28	-0.2431	-0.0234	-0.0795	0.0962	0.3270	-0.0108	0.0013	0.0111	0.1250	1.0277
3	0.02	18.46	-0.1913	-0.0218	-0.0688	0.1142	0.3599	0.0031	0.0016	0.0075	0.5322	2.4300
4	0.02	17.62	-0.1485	-0.0204	-0.0579	0.1377	0.3898	0.0111	0.0013	0.0099	0.1216	0.8918
5	0.02	16.78	-0.1024	-0.0190	-0.0426	0.1860	0.4162	0.0062	0.0018	0.0087	0.2903	1.3977
6	0.02	16.03	-0.0434	-0.0164	-0.0232	0.3790	0.5337	-0.0016	0.0015	0.0062	-0.9373	-3.8543
7	0.02	15.22	-0.0111	-0.0154	-0.0071	1.3871	0.6395	0.0034	0.0019	0.0060	0.5587	1.7744
8	0.02	14.47	0.0393	-0.0145	0.0061	-0.3702	0.1551	-0.0002	0.0014	0.0072	-7.2487	-36.1667
9	0.03	13.66	0.0796	-0.0138	0.0220	-0.1733	0.2767	-0.0042	0.0021	0.0023	-0.5118	-0.5477
10	0.03	12.92	0.1199	-0.0123	0.0387	-0.1026	0.3232	-0.0026	0.0021	0.0025	-0.8268	-0.9745
11	0.02	12.13	0.1643	-0.0116	0.0557	-0.0706	0.3393	-0.0030	0.0016	0.0048	-0.5332	-1.6001
12	0.02	11.39	0.2227	-0.0118	0.0695	-0.0532	0.3121	-0.0043	0.0019	0.0027	-0.4418	-0.6203
13	0.02	10.59	0.2789	-0.0115	0.0898	-0.0414	0.3217	-0.0111	0.0020	0.0031	-0.1801	-0.2794
14	0.03	9.75	0.3295	-0.0117	0.1146	-0.0356	0.3478	-0.0127	0.0021	0.0027	-0.1693	-0.2101
15	0.02	8.99	0.3738	-0.0110	0.1307	-0.0294	0.3495	-0.0204	0.0019	0.0000	-0.0956	-0.0001
16	0.02	8.16	0.4256	-0.0104	0.1514	-0.0245	0.3558	-0.0045	0.0017	0.0038	-0.3888	-0.8446
17	0.02	7.37	0.4816	-0.0106	0.1698	-0.0220	0.3525	-0.0093	0.0015	0.0028	-0.1666	-0.3012
18	0.02	6.56	0.5462	-0.0099	0.1913	-0.0182	0.3502	-0.0079	0.0016	0.0039	-0.2088	-0.4896
19	0.02	5.76	0.6125	-0.0089	0.2081	-0.0145	0.3397	-0.0111	0.0018	0.0031	-0.1666	-0.2794
20	0.02	4.92	0.6822	-0.0077	0.2285	-0.0114	0.3348	-0.0073	0.0019	0.0012	-0.2602	-0.1599
21	0.02	4.15	0.7262	-0.0056	0.2470	-0.0077	0.3401	-0.0156	0.0024	0.0007	-0.1570	-0.0450
22	0.02	3.35	0.7775	-0.0041	0.2667	-0.0053	0.3430	-0.0088	0.0029	0.0001	-0.3295	-0.0077
23	0.02	2.62	0.8445	-0.0028	0.2801	-0.0034	0.3317	-0.0155	0.0024	0.0004	-0.1580	-0.0281
24	0.02	1.81	0.9006	-0.0009	0.2966	-0.0011	0.3293	-0.0186	0.0023	-0.0004	-0.1263	0.0214
25	0.02	1.05	0.9284	0.0018	0.3093	0.0019	0.3331	-0.0218	0.0023	-0.0010	-0.1076	0.0442
26	0.02	0.29	0.9968	0.0049	0.3204	0.0050	0.3214	-0.0237	0.0020	0.0001	-0.0865	-0.0043
27	0.02	-0.45	1.0388	0.0078	0.3312	0.0075	0.3189	-0.0234	0.0018	-0.0009	-0.0769	0.0383
28	0.02	-1.27	1.0820	0.0113	0.3414	0.0105	0.3156	-0.0184	0.0022	-0.0013	-0.1195	0.0723
29	0.02	-2.06	1.1163	0.0161	0.3510	0.0144	0.3144	-0.0234	0.0017	-0.0009	-0.0748	0.0383
30	0.02	-2.88	1.1741	0.0218	0.3607	0.0186	0.3072	-0.0284	0.0014	-0.0014	-0.0493	0.0480
31	0.02	-3.68	1.1998	0.0284	0.3634	0.0237	0.3029	-0.0251	0.0020	-0.0016	-0.0797	0.0623
32	0.02	-4.50	1.2022	0.0443	0.3680	0.0369	0.2895	-0.0283	0.0019	-0.0024	-0.0671	0.0859
33	0.02	-5.23	1.1881	0.0507	0.3395	0.0427	0.2861	-0.0285	0.0020	-0.0021	-0.0719	0.0736
34	0.02	-6.04	1.1993	0.0508	0.3395	0.0424	0.2831	-0.0315	0.0021	-0.0039	-0.0682	0.1237
35	0.02	-6.77	1.1980	0.0530	0.3266	0.0442	0.2726	-0.0220	0.0027	-0.0021	-0.1250	0.0969
36	0.02	-7.58	1.1429	0.0457	0.3082	0.0400	0.2697	-0.0231	0.0020	-0.0040	-0.0866	0.1730
37	0.02	-8.38	1.1271	0.0403	0.2986	0.0357	0.2649	-0.0158	0.0021	0.0006	-0.1361	-0.0402
38	0.02	-9.12	1.0545	0.0310	0.2803	0.0294	0.2658	-0.0312	0.0030	-0.0066	-0.0961	0.2114
39	0.02	-9.95	1.0557	0.0279	0.2881	0.0265	0.2729	-0.0254	0.0026	-0.0025	-0.1023	0.0970
40	0.02	-10.69	1.0758	0.0246	0.2921	0.0229	0.2715	-0.0203	0.0034	-0.0029	-0.1699	0.1411
41	0.02	-11.45	1.0844	0.0223	0.2965	0.0206	0.2734	-0.0269	0.0036	-0.0036	-0.1338	0.1325
42	0.02	-12.20	1.0992	0.0201	0.2998	0.0183	0.2727	-0.0202	0.0032	-0.0029	-0.1609	0.1451
43	0.02	-13.00	1.0709	0.0197	0.2958	0.0184	0.2762	-0.0205	0.0035	-0.0012	-0.1707	0.0600
44	0.02	-13.78	1.0808	0.0191	0.2959	0.0177	0.2737	-0.0127	0.0027	0.0020	-0.2126	-0.1550
45	0.02	-14.65	1.0811	0.0223	0.2956	0.0207	0.2734	-0.0249	0.0045	-0.0065	-0.3433	0.2609
46	0.02	-15.47	1.1003	0.0204	0.2999	0.0185	0.2726	-0.0203	0.0072	-0.0040	-0.3546	0.1953

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6												
6 114 0.85 1.7 0.0 82WOF12 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF1	CN1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	-16.25	1.1123	0.0218	0.3013	0.0196	0.2709	-0.0186	0.0050	-0.0027	-0.2688	0.1450
48	0.02	-17.10	1.1426	0.0172	0.3135	0.0151	0.2744	0.0044	-0.0012	0.0113	-0.2840	2.5605
49	0.01	-17.95	1.1806	0.0155	0.3231	0.0131	0.2737	0.0130	-0.0057	0.0213	-0.4384	1.6409
50	0.02	-18.81	1.1729	0.0157	0.3192	0.0134	0.2722	-0.0030	-0.0017	0.0070	0.5666	-2.3335
51	0.02	-19.59	1.1573	0.0146	0.3222	0.0126	0.2784	-0.0187	0.0032	-0.0012	-0.1711	0.0658
52	0.02	-20.42	1.1835	0.0127	0.3278	0.0107	0.2770	-0.0140	0.0061	-0.0016	-0.4392	0.1118

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	114	0.85	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	19.70	-0.2954	-0.0216	-0.0840	0.0731	0.2845	0.0111	-0.0068	-0.0024	-0.6170	-0.2163
2	0.02	19.28	-0.2595	-0.0205	-0.0793	0.0805	0.3055	-0.0017	0.0010	0.0003	-0.6175	-0.1962
3	0.02	18.46	-0.2362	-0.0194	-0.0657	0.0821	0.2782	0.0007	-0.0004	-0.0002	-0.5713	-0.2382
4	0.02	17.62	-0.1985	-0.0178	-0.0465	0.0897	0.2345	-0.0007	0.0004	0.0002	-0.6427	-0.2382
5	0.02	16.78	-0.1512	-0.0159	-0.0301	0.1055	0.1990	-0.0040	0.0024	0.0009	-0.6124	-0.2168
6	0.02	16.03	-0.1084	-0.0146	-0.0131	0.1351	0.1210	0.0067	-0.0041	-0.0015	-0.6193	-0.2190
7	0.02	15.22	-0.0640	-0.0135	0.0005	0.2117	-0.0014	0.0084	-0.0052	-0.0018	-0.6189	-0.2144
8	0.02	14.47	-0.0171	-0.0130	0.0164	0.7601	-0.9592	0.0081	-0.0050	-0.0018	-0.6172	-0.2223
9	0.03	13.66	0.0175	-0.0121	0.0313	-0.6913	1.7904	0.0086	-0.0053	-0.0018	-0.6162	-0.2133
10	0.03	12.92	0.0576	-0.0106	0.0523	-0.1849	0.9079	0.0117	-0.0072	-0.0026	-0.6153	-0.2223
11	0.02	12.13	0.0943	-0.0101	0.0711	-0.1071	0.7542	0.0141	-0.0086	-0.0031	-0.6134	-0.2200
12	0.02	11.39	0.1354	-0.0099	0.0894	-0.0731	0.6604	0.0112	-0.0068	-0.0025	-0.6115	-0.2204
13	0.02	10.59	0.1874	-0.0097	0.1104	-0.0518	0.5894	0.0104	-0.0064	-0.0022	-0.6153	-0.2149
14	0.03	9.75	0.2353	-0.0087	0.1319	-0.0370	0.5606	0.0103	-0.0063	-0.0023	-0.6164	-0.2202
15	0.02	8.99	0.3017	-0.0083	0.1496	-0.0277	0.4959	0.0081	-0.0049	-0.0018	-0.6110	-0.2223
16	0.02	8.16	0.3334	-0.0077	0.1779	-0.0232	0.5335	0.0070	-0.0043	-0.0016	-0.6142	-0.2239
17	0.02	7.37	0.3937	-0.0072	0.1984	-0.0184	0.5039	0.0071	-0.0043	-0.0015	-0.6126	-0.2161
18	0.02	6.56	0.4499	-0.0065	0.2196	-0.0144	0.4881	0.0056	-0.0034	-0.0012	-0.6070	-0.2204
19	0.02	5.76	0.5117	-0.0049	0.2395	-0.0096	0.4680	0.0049	-0.0030	-0.0011	-0.6121	-0.2178
20	0.02	4.92	0.5637	-0.0034	0.2621	-0.0060	0.4650	0.0037	-0.0023	-0.0008	-0.6215	-0.2073
21	0.02	4.15	0.6336	-0.0028	0.2819	-0.0044	0.4449	0.0021	-0.0013	-0.0004	-0.6189	-0.1906
22	0.02	3.35	0.6747	-0.0009	0.3020	-0.0014	0.4476	0.0012	-0.0007	-0.0003	-0.6249	-0.2501
23	0.02	2.62	0.7235	0.0009	0.3233	0.0012	0.4466	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
24	0.02	1.81	0.7805	0.0036	0.3338	0.0047	0.4278	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
25	0.02	1.05	0.8246	0.0056	0.3486	0.0068	0.4227	0.0007	-0.0004	-0.0002	-0.5713	-0.2382
26	0.02	0.29	0.8607	0.0103	0.3638	0.0120	0.4227	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
27	0.02	-0.45	0.9114	0.0142	0.3742	0.0156	0.4106	0.0007	-0.0004	-0.0002	-0.6427	-0.2382
28	0.02	-1.27	0.9581	0.0175	0.3853	0.0183	0.4022	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
29	0.02	-2.06	0.9935	0.0231	0.3941	0.0232	0.3967	0.0007	-0.0004	-0.0002	-0.6427	-0.2382
30	0.02	-2.88	1.0509	0.0277	0.4029	0.0264	0.3834	0.0022	-0.0013	-0.0005	-0.5908	-0.2122
31	0.02	-3.68	1.0786	0.0347	0.4068	0.0322	0.3772	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
32	0.02	-4.50	1.0702	0.0503	0.3855	0.0470	0.3602	0.0019	-0.0012	-0.0004	-0.6315	-0.1931
33	0.02	-5.23	1.0571	0.0569	0.3717	0.0538	0.3517	0.0019	-0.0011	-0.0005	-0.6052	-0.2457
34	0.02	-6.04	1.0804	0.0588	0.3732	0.0544	0.3454	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
35	0.02	-6.77	1.0495	0.0575	0.3549	0.0548	0.3382	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
36	0.02	-7.58	1.0217	0.0508	0.3387	0.0497	0.3315	0.0014	-0.0009	-0.0003	-0.6427	-0.2382
37	0.02	-8.38	0.9337	0.0410	0.3118	0.0439	0.3361	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
38	0.02	-9.12	0.9342	0.0382	0.3147	0.0409	0.3369	0.0027	-0.0016	-0.0006	-0.6110	-0.2223
39	0.02	-9.95	0.9433	0.0331	0.3187	0.0351	0.3379	0.0014	-0.0009	-0.0003	-0.6427	-0.2382
40	0.02	-10.69	0.9359	0.0303	0.3231	0.0324	0.3452	0.0012	-0.0007	-0.0003	-0.6249	-0.2501
41	0.02	-11.45	0.9618	0.0279	0.3241	0.0290	0.3370	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
42	0.02	-12.20	0.9467	0.0269	0.3254	0.0284	0.3437	0.0026	-0.0015	-0.0006	-0.5960	-0.2437
43	0.02	-13.00	0.9512	0.0253	0.3190	0.0266	0.3353	0.0022	-0.0014	-0.0005	-0.6363	-0.2122
44	0.02	-13.78	0.9559	0.0252	0.3206	0.0264	0.3354	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
45	0.02	-14.65	0.9685	0.0247	0.3270	0.0255	0.3377	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
46	0.02	-15.47	0.9780	0.0235	0.3305	0.0241	0.3379	0.0018	-0.0011	-0.0004	-0.6110	-0.2223

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 114 0.85 1.7 0.0 82WOF12 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-16.25	0.9872	0.0243	0.3355	0.0247	0.3398	0.0018	-0.0011	-0.0004	-0.6110	-0.2223
48	0.02	-17.10	1.0070	0.0244	0.3382	0.0242	0.3358	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
49	0.01	-17.95	0.9921	0.0236	0.3363	0.0238	0.3390	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
50	0.02	-18.81	1.0363	0.0233	0.3493	0.0225	0.3371	0.0025	-0.0015	-0.0006	-0.5999	-0.2268
51	0.02	-19.59	1.0730	0.0207	0.3654	0.0193	0.3406	0.0030	-0.0018	-0.0007	-0.6166	-0.2335
52	0.02	-20.42	1.0938	0.0212	0.3703	0.0194	0.3385	0.0029	-0.0018	-0.0006	-0.6206	-0.2185

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	115	0.92	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP		
1	0.03	19.63	0.0295	-0.0133	-2.0674	0.0788	-0.0200	-0.0425	-0.4508		
2	0.03	19.27	0.0324	-0.0504	-2.0352	0.1077	-0.0150	-0.0493	-1.5543		
3	0.03	18.52	0.0191	-0.0117	-1.8668	-0.1432	-0.0140	-0.0193	-0.6147		
4	0.02	17.65	0.0552	-0.1593	-1.7326	-0.2940	-0.0260	-0.0031	-2.8855		
5	0.03	16.85	-0.0035	0.0139	-1.5979	-0.4446	-0.0130	0.0247	-3.9714		
6	0.03	16.05	0.0335	-0.0529	-1.4667	-0.7782	-0.0200	0.0526	-1.5791		
7	0.03	15.28	-0.0066	0.0492	-1.2042	-1.0857	0.0070	0.0810	-7.4606		
8	0.03	14.51	-0.0044	0.0002	-1.0201	-1.3265	-0.0120	0.1144	-0.0364		
9	0.03	13.73	-0.0069	0.0037	-0.8863	-1.5358	-0.0030	0.1369	-0.5304		
10	0.02	12.95	0.0206	-0.0708	-0.7465	-1.7745	-0.0070	0.1543	-3.4388		
11	0.02	12.20	0.0217	-0.0864	-0.5646	-2.0312	0.0040	0.1853	-3.9806		
12	0.02	11.43	0.0304	-0.0995	-0.4037	-2.3924	0.0040	0.2221	-3.2750		
13	0.02	10.63	0.0355	-0.1387	-0.2624	-2.7423	0.0030	0.2459	-3.9070		
14	0.02	9.83	0.0375	-0.1175	-0.1066	-3.1254	0.0040	0.2806	-3.1333		
15	0.02	9.01	0.0441	-0.1617	0.0916	-3.5208	0.0070	0.3185	-3.6676		
16	0.02	8.23	0.0194	-0.1191	0.2343	-3.8885	0.0100	0.3477	-6.1423		
17	0.02	7.41	0.0221	-0.0939	0.3555	-4.3139	0.0130	0.3802	-4.2507		
18	0.02	6.65	0.0234	-0.1197	0.5365	-4.6456	0.0150	0.4074	-5.1179		
19	0.02	5.81	0.0480	-0.2052	0.6908	-4.9866	0.0080	0.4309	-4.2750		
20	0.02	5.00	0.0444	-0.1961	0.8045	-5.3337	0.0120	0.4589	-4.4180		
21	0.02	4.18	0.0542	-0.2089	0.9789	-5.7738	0.0070	0.4980	-3.8539		
22	0.02	3.41	0.0518	-0.1935	1.0823	-6.1436	0.0090	0.5213	-3.7359		
23	0.02	2.65	0.0525	-0.2185	1.2727	-6.5712	0.0010	0.5541	-4.1619		
24	0.02	1.88	0.0393	-0.1750	1.4083	-6.9030	0.0060	0.5755	-4.4534		
25	0.02	1.12	0.0644	-0.2551	1.5194	-7.2655	0.0020	0.5936	-3.9621		
26	0.02	0.35	0.0651	-0.2451	1.7009	-7.5835	0.0020	0.6214	-3.7656		
27	0.02	-0.41	0.0454	-0.2225	1.7912	-7.9499	0.0010	0.6423	-4.9022		
28	0.02	-1.20	0.0476	-0.2186	1.9410	-8.2827	0.0020	0.6629	-4.5933		
29	0.01	-1.97	0.0440	-0.2356	2.0586	-8.5723	0.0030	0.6807	-5.3545		
30	0.02	-2.82	0.0506	-0.2278	2.2040	-8.9518	0.0	0.7039	-4.5028		
31	0.02	-3.63	0.0613	-0.2598	2.3036	-9.1173	0.0060	0.7153	-4.2305		
32	0.02	-4.45	0.0655	-0.2457	2.3961	-9.1958	0.0110	0.7158	-3.7511		
33	0.01	-5.16	0.0565	-0.2631	2.5461	-9.4457	0.0130	0.7412	-4.6506		
34	0.01	-5.96	0.0750	-0.3040	2.5594	-9.3124	0.0120	0.7641	-4.0533		
35	0.02	-6.72	0.0601	-0.2561	2.4736	-8.7853	0.0300	0.7722	-4.2619		
36	0.02	-7.55	0.0358	-0.1723	2.4156	-8.3582	0.0080	0.7672	-5.0982		
37	0.02	-8.30	0.0370	-0.2068	2.4910	-8.2897	0.0110	0.7600	-5.5892		
38	0.02	-9.09	0.0364	-0.1799	2.5606	-8.2782	0.0030	0.7604	-4.9440		
39	0.02	-9.86	0.0516	-0.1942	2.6406	-8.3452	0.0040	0.7500	-3.7643		
40	0.02	-10.66	0.0466	-0.2282	2.7203	-8.4609	0.0010	0.7561	-4.8979		
41	0.02	-11.40	0.0383	-0.2266	2.8534	-8.6742	0.0020	0.7497	-5.9170		
42	0.01	-12.17	0.0666	-0.3312	2.9673	-8.7666	0.0020	0.7503	-4.9736		
43	0.01	-12.94	0.0816	-0.3582	3.0595	-8.8037	0.0140	0.7568	-4.3902		
44	0.01	-13.70	0.0931	-0.4173	3.1860	-8.8728	0.0150	0.7629	-4.4827		
45	0.01	-14.57	0.0754	-0.3585	3.3706	-9.1272	0.0040	0.7624	-4.7554		
46	0.01	-15.38	0.0834	-0.3717	3.4326	-9.0810	0.0050	0.7644	-4.4576		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6									
6 115 0.92 1.7									
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION									
0.0 B2WOF12 0.0 20 0 20 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	-16.21	0.0684	-0.3237	3.6079	-4.3285	0.0010	0.7610	-4.7333
48	0.01	-16.98	0.0824	-0.3713	3.7167	-5.3928	-0.0020	0.7591	-4.5068
49	0.02	-17.89	0.0474	-0.2113	3.8497	-6.5370	-0.0100	0.7611	-4.5013
50	0.01	-18.71	0.0275	-0.2435	3.9886	-9.6475	-0.0110	0.7545	-8.8545
51	0.02	-19.56	0.0755	-0.2717	4.1828	-9.9413	-0.0060	0.7612	-3.5987
52	0.01	-20.32	0.0402	-0.2362	4.3442	-10.1774	-0.0190	0.7579	-5.8776

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	115	0.92	1.7	0.0	82WOF12	0.0	20	0	20	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	0.03	19.63	-0.2667	-0.0207	-0.0691	0.0778	0.2590	0.0358	0.0000	0.0114	0.0014	0.3192
2	0.03	19.27	-0.2713	-0.0203	-0.0658	0.0748	0.2425	0.0262	-0.0001	0.0083	-0.0038	0.3179
3	0.03	18.52	-0.2456	-0.0195	-0.0577	0.0796	0.2351	0.0211	0.0010	0.0038	0.0474	0.1816
4	0.02	17.63	-0.2084	-0.0183	-0.0481	0.0880	0.2310	0.0292	0.0002	0.0080	0.0068	0.2750
5	0.03	16.85	-0.1685	-0.0163	-0.0327	0.0970	0.1943	0.0268	0.0011	0.0048	0.0410	0.1802
6	0.03	16.05	-0.1135	-0.0147	-0.0149	0.1295	0.1315	0.0309	-0.0001	0.0070	-0.0032	0.2264
7	0.03	15.28	-0.0590	-0.0141	0.0036	0.2398	-0.0617	0.0196	0.0002	0.0043	0.0102	0.2210
8	0.03	14.51	-0.0227	-0.0134	0.0146	0.5502	-0.6448	0.0211	0.0006	0.0037	0.0284	0.1768
9	0.03	13.73	0.0113	-0.0131	0.0327	-1.1635	2.8907	0.0128	0.0013	0.0012	0.1054	0.0910
10	0.02	12.95	0.0584	-0.0125	0.0444	-0.2140	0.7596	0.0179	0.0010	0.0047	0.0559	0.2606
11	0.02	12.20	0.0960	-0.0108	0.0641	-0.1130	0.6676	0.0171	0.0017	0.0010	0.0994	0.0584
12	0.02	11.43	0.1528	-0.0124	0.0816	-0.0811	0.5341	0.0200	0.0011	0.0016	0.0575	0.0782
13	0.02	10.63	0.2074	-0.0151	0.1023	-0.0730	0.4933	0.0154	0.0014	0.0019	0.0941	0.1254
14	0.02	9.83	0.2473	-0.0167	0.1243	-0.0675	0.5026	0.0101	0.0015	-0.0003	0.1534	-0.0331
15	0.02	9.01	0.3243	-0.0191	0.1473	-0.0589	0.4541	0.0086	0.0013	-0.0000	0.1511	-0.0040
16	0.02	8.23	0.3711	-0.0202	0.1680	-0.0544	0.4526	0.0031	0.0012	-0.0017	0.3870	-0.0378
17	0.02	7.41	0.4379	-0.0197	0.1879	-0.0450	0.4291	-0.0008	0.0013	-0.0034	-1.6247	4.2082
18	0.02	6.65	0.4930	-0.0203	0.2087	-0.0413	0.4233	-0.0050	0.0017	-0.0043	-0.3399	0.8532
19	0.02	5.81	0.5452	-0.0200	0.2256	-0.0368	0.4137	0.0074	0.0017	-0.0018	0.2297	-0.2479
20	0.02	5.00	0.6047	-0.0192	0.2452	-0.0317	0.4055	0.0002	0.0020	-0.0022	10.2482	-11.1668
21	0.02	4.18	0.6719	-0.0188	0.2608	-0.0280	0.3881	0.0048	0.0014	-0.0026	0.3020	-0.5418
22	0.02	3.41	0.7192	-0.0190	0.2786	-0.0264	0.3674	0.0036	0.0012	-0.0036	0.3333	-1.0001
23	0.02	2.65	0.7849	-0.0192	0.2986	-0.0245	0.3805	0.0060	0.0012	-0.0017	0.2000	-0.2835
24	0.02	1.88	0.8423	-0.0188	0.3126	-0.0224	0.3711	-0.0021	0.0017	-0.0044	-0.8332	2.0951
25	0.02	1.12	0.8842	-0.0179	0.3252	-0.0202	0.3678	0.0031	0.0013	-0.0017	0.4193	-0.5378
26	0.02	0.35	0.9367	-0.0159	0.3414	-0.0170	0.3645	0.0053	0.0015	0.0010	0.2830	0.1823
27	0.02	-0.41	0.9980	-0.0144	0.3520	-0.0144	0.3527	-0.0051	0.0011	-0.0034	-0.2255	0.6665
28	0.02	-1.20	1.0499	-0.0120	0.3683	-0.0115	0.3508	-0.0038	0.0012	-0.0030	-0.3157	0.7806
29	0.01	-1.97	1.0985	-0.0101	0.3736	-0.0092	0.3401	-0.0082	0.0011	-0.0025	-0.1341	0.3088
30	0.02	-2.82	1.1483	-0.0069	0.3855	-0.0061	0.3357	-0.0094	0.0011	-0.0039	-0.1170	0.4183
31	0.02	-3.63	1.1725	0.0050	0.3821	0.0043	0.3254	-0.0055	0.0009	-0.0018	-0.1636	0.3332
32	0.02	-4.45	1.1810	0.0165	0.3806	0.0140	0.3223	-0.0110	0.0010	-0.0035	-0.0954	0.3150
33	0.01	-5.16	1.2195	0.0245	0.3787	0.0201	0.3105	-0.0092	0.0011	-0.0048	-0.1195	0.5180
34	0.01	-5.96	1.2086	0.0318	0.3756	0.0263	0.3108	0.0022	-0.0016	-0.0019	-0.7449	-0.8486
35	0.02	-6.72	1.1655	0.0316	0.3520	0.0271	0.3020	-0.0053	0.0049	-0.0054	-0.9338	1.0125
36	0.02	-7.55	1.0767	0.0274	0.3163	0.0254	0.2937	-0.0103	0.0020	-0.0071	-0.1941	0.6924
37	0.02	-8.30	1.0406	0.0258	0.3047	0.0248	0.2928	-0.0146	0.0028	-0.0084	-0.1952	0.5729
38	0.02	-9.09	1.0254	0.0224	0.3003	0.0219	0.2928	-0.0134	0.0031	-0.0074	-0.2313	0.5496
39	0.02	-9.86	1.0379	0.0211	0.3023	0.0204	0.2912	-0.0079	0.0018	-0.0051	-0.2278	0.6497
40	0.02	-10.66	1.0539	0.0186	0.3062	0.0177	0.2905	-0.0010	0.0028	-0.0036	-2.8495	3.6332
41	0.02	-11.40	1.0658	0.0159	0.3159	0.0150	0.2964	0.0018	0.0039	-0.0037	2.1941	-2.0557
42	0.01	-12.17	1.0744	0.0153	0.3152	0.0142	0.2934	0.0112	0.0017	0.0017	0.1562	0.1546
43	0.01	-12.94	1.0942	0.0129	0.3248	0.0118	0.2968	0.0044	0.0027	-0.0016	0.6135	-0.3713
44	0.01	-13.70	1.1120	0.0118	0.3296	0.0107	0.2964	0.0226	0.0020	0.0038	0.0885	0.1695
45	0.01	-14.57	1.1131	0.0113	0.3347	0.0101	0.3007	0.0212	0.0024	0.0034	0.1132	0.1587
46	0.01	-15.38	1.1288	0.0107	0.3336	0.0095	0.2956	0.0210	0.0008	0.0054	0.0381	0.2570

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST. PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6	115	0.92	1.7	0.0	82WOF12	0.0	20	0	20	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
47	0.02	-16.21	1.1383	0.0102	0.3409	0.0090	0.2995	0.0225	-0.0013	0.0068	-0.0578	0.3021
48	0.01	-16.98	1.1575	0.0099	0.3415	0.0085	0.2950	0.0222	-0.0001	0.0070	-0.0045	0.3152
49	0.02	-17.89	1.1583	0.0095	0.3449	0.0082	0.2977	0.0077	0.0002	-0.0011	0.0260	-0.1473
50	0.01	-18.71	1.1813	0.0090	0.3495	0.0077	0.2959	0.0179	-0.0008	0.0074	-0.0447	0.4114
51	0.02	-19.56	1.2133	0.0077	0.3640	0.0064	0.3000	0.0130	-0.0017	0.0035	-0.1346	0.2717
52	0.01	-20.32	1.2293	0.0067	0.3644	0.0055	0.2979	0.0072	0.0056	-0.0022	0.7776	-0.3057

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		115 0.92 1.7		0.0 0.2WOF12		0.0	0	20	0	20	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4	
1	0.03	19.63	-0.2774	-0.0189	-0.0774	0.0681	0.2788	0.0010	-0.0036	-0.0002	-0.6499	-0.1668	
2	0.03	19.27	-0.2670	-0.0192	-0.0764	0.0721	0.2860	0.0049	-0.0030	-0.0011	-0.6223	-0.2178	
3	0.03	18.52	-0.2277	-0.0184	-0.0660	0.0810	0.2697	0.0019	-0.0011	-0.0005	-0.6052	-0.2457	
4	0.02	17.65	-0.1976	-0.0179	-0.0447	0.0908	0.2264	-0.0074	0.0045	0.0014	-0.6148	-0.1938	
5	0.03	16.85	-0.1645	-0.0169	-0.0365	0.1030	0.2220	0.0032	-0.0019	-0.0007	-0.6093	-0.2293	
6	0.03	16.05	-0.1021	-0.0150	-0.0196	0.1469	0.1922	0.0063	-0.0039	-0.0014	-0.6189	-0.2223	
7	0.03	15.28	-0.0766	-0.0150	-0.0041	0.1564	0.0538	0.0207	-0.0128	-0.0045	-0.6182	-0.2175	
8	0.03	14.51	-0.0198	-0.0140	0.0149	0.7069	-0.7526	0.0106	-0.0065	-0.0024	-0.6131	-0.2234	
9	0.03	13.73	0.0008	-0.0148	0.0312	-18.4967	38.9582	0.0168	-0.0103	-0.0037	-0.6130	-0.2204	
10	0.02	12.95	0.0517	-0.0132	0.0467	-0.2553	0.9038	0.0154	-0.0039	-0.0034	-0.6168	-0.2187	
11	0.02	12.20	0.0629	-0.0124	0.0645	-0.1496	0.7783	0.0132	-0.0081	-0.0029	-0.6173	-0.2198	
12	0.02	11.43	0.1409	-0.0132	0.0867	-0.0940	0.6157	0.0133	-0.0081	-0.0030	-0.6127	-0.2232	
13	0.02	10.63	0.1856	-0.0151	0.1105	-0.0813	0.5956	0.0163	-0.0100	-0.0036	-0.6165	-0.2189	
14	0.02	9.83	0.2295	-0.0170	0.1303	-0.0741	0.5589	0.0128	-0.0079	-0.0027	-0.6171	-0.2137	
15	0.02	9.01	0.2910	-0.0188	0.1575	-0.0646	0.5410	0.0107	-0.0065	-0.0023	-0.6120	-0.2182	
16	0.02	8.23	0.3373	-0.0192	0.1787	-0.0565	0.5297	0.0108	-0.0066	-0.0023	-0.6156	-0.2131	
17	0.02	7.41	0.3941	-0.0192	0.2016	-0.0487	0.5116	0.0099	-0.0060	-0.0022	-0.6110	-0.2223	
18	0.02	6.65	0.4470	-0.0190	0.2188	-0.0425	0.4896	0.0079	-0.0048	-0.0018	-0.6138	-0.2237	
19	0.02	5.81	0.5077	-0.0180	0.2421	-0.0355	0.4768	0.0070	-0.0043	-0.0015	-0.6213	-0.2096	
20	0.02	5.00	0.5580	-0.0164	0.2601	-0.0275	0.4662	0.0070	-0.0043	-0.0016	-0.6142	-0.2239	
21	0.02	4.18	0.6166	-0.0166	0.2861	-0.0270	0.4641	0.0059	-0.0036	-0.0012	-0.6185	-0.2092	
22	0.02	3.41	0.6605	-0.0165	0.3053	-0.0250	0.4622	0.0049	-0.0030	-0.0011	-0.6121	-0.2178	
23	0.02	2.65	0.7186	-0.0161	0.3266	-0.0224	0.4545	0.0040	-0.0024	-0.0009	-0.6124	-0.2168	
24	0.02	1.88	0.7708	-0.0143	0.3406	-0.0186	0.4419	0.0034	-0.0021	-0.0008	-0.6175	-0.2256	
25	0.02	1.12	0.8100	-0.0129	0.3571	-0.0160	0.4409	0.0038	-0.0023	-0.0008	-0.6052	-0.2194	
26	0.02	0.35	0.8685	-0.0107	0.3712	-0.0124	0.4274	0.0031	-0.0019	-0.0007	-0.6128	-0.2152	
27	0.02	-0.41	0.9184	-0.0095	0.3880	-0.0103	0.4225	0.0028	-0.0017	-0.0007	-0.6070	-0.2382	
28	0.02	-1.20	0.9678	-0.0060	0.3585	-0.0062	0.4121	0.0026	-0.0016	-0.0005	-0.6153	-0.2052	
29	0.01	-1.97	1.0114	-0.0031	0.4087	-0.0031	0.4041	0.0026	-0.0016	-0.0005	-0.6153	-0.2052	
30	0.02	-2.82	1.0568	0.0010	0.4215	0.0009	0.3989	0.0026	-0.0016	-0.0005	-0.6153	-0.2052	
31	0.02	-3.63	1.0824	0.0147	0.4101	0.0136	0.3788	0.0023	-0.0014	-0.0005	-0.6303	-0.2320	
32	0.02	-4.45	1.0852	0.0295	0.4000	0.0272	0.3686	0.0021	-0.0013	-0.0004	-0.6189	-0.1906	
33	0.01	-5.16	1.1178	0.0372	0.3999	0.0333	0.3577	0.0019	-0.0012	-0.0004	-0.6315	-0.1931	
34	0.01	-5.96	1.1170	0.0424	0.3845	0.0380	0.3442	0.0017	-0.0010	-0.0003	-0.6175	-0.1962	
35	0.02	-6.72	1.0443	0.0366	0.3689	0.0349	0.3341	0.0023	-0.0014	-0.0005	-0.6086	-0.2320	
36	0.02	-7.55	1.0023	0.0346	0.3342	0.0346	0.3334	0.0021	-0.0013	-0.0004	-0.6189	-0.1906	
37	0.02	-8.30	0.9845	0.0326	0.3243	0.0331	0.3294	0.0026	-0.0016	-0.0005	-0.6153	-0.2052	
38	0.02	-9.09	0.9855	0.0304	0.3214	0.0308	0.3261	0.0022	-0.0013	-0.0005	-0.6135	-0.2122	
39	0.02	-9.86	0.9862	0.0280	0.3221	0.0284	0.3266	0.0015	-0.0009	-0.0003	-0.5999	-0.2001	
40	0.02	-10.66	0.9993	0.0253	0.3290	0.0253	0.3292	0.0015	-0.0009	-0.0003	-0.6332	-0.2001	
41	0.02	-11.40	1.0032	0.0241	0.3278	0.0240	0.3267	0.0039	-0.0024	-0.0008	-0.6153	-0.2052	
42	0.01	-12.17	1.0004	0.0222	0.3264	0.0222	0.3262	0.0019	-0.0011	-0.0004	-0.6052	-0.1931	
43	0.01	-12.94	1.0168	0.0213	0.3302	0.0210	0.3246	0.0017	-0.0010	-0.0003	-0.6175	-0.1962	
44	0.01	-13.70	0.9999	0.0208	0.3264	0.0208	0.3264	0.0024	-0.0014	-0.0005	-0.6041	-0.2085	
45	0.01	-14.57	1.0341	0.0192	0.3446	0.0186	0.3332	0.0020	-0.0012	-0.0004	-0.5999	-0.2168	
46	0.01	-15.38	1.0439	0.0193	0.3398	0.0185	0.3256	0.0017	-0.0010	-0.0003	-0.6175	-0.1962	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 115 0.92 1.7 0.0 0.2HOF12 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-16.21	1.0547	0.0190	0.3480	0.0180	0.3300	0.0024	-0.0014	-0.0005	-0.6041	-0.2085
48	0.01	-16.98	1.0774	0.0189	0.3549	0.0175	0.3294	0.0015	-0.0009	-0.0003	-0.6332	-0.2001
49	0.02	-17.89	1.1051	0.0178	0.3626	0.0161	0.3281	0.0015	-0.0009	-0.0003	-0.6332	-0.2001
50	0.01	-18.71	1.1114	0.0174	0.3666	0.0157	0.3299	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
51	0.02	-19.56	1.1348	0.0172	0.3754	0.0152	0.3308	0.0022	-0.0014	-0.0005	-0.6363	-0.2122
52	0.01	-20.32	1.1825	0.0168	0.3507	0.0142	0.3304	0.0022	-0.0013	-0.0005	-0.6135	-0.2122

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH			HX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
0			116 0.97 1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.61	0.0508	-0.1111	-2.1450	-0.0916	-0.0170	0.0150	-2.1874		
2	0.02	19.24	0.0405	-0.0427	-2.1396	-0.0221	-0.0140	0.0136	-2.0829		
3	0.02	18.53	0.0112	-0.0267	-2.0431	-0.1442	-0.0150	0.0278	-2.3821		
4	0.02	17.70	0.0147	-0.0206	-1.8724	-0.3063	-0.0180	0.0525	-1.4000		
5	0.03	16.89	-0.0046	0.0864	-1.6967	-0.5473	-0.0140	0.0885	-1.8791		
6	0.02	16.09	-0.0076	0.0084	-1.4797	-0.7610	-0.0100	0.1255	1.1000		
7	0.03	15.33	0.0082	-0.0095	-1.3202	-1.0163	-0.0130	0.1486	-1.1561		
8	0.02	14.56	-0.0030	0.0102	-1.1628	-1.2326	-0.0070	0.1772	-3.4000		
9	0.02	13.79	0.0036	-0.0060	-0.9480	-1.4775	-0.0060	0.2147	-1.6778		
10	0.03	13.00	0.0003	0.0116	-0.8276	-1.7350	0.0010	0.2453	3.0000		
11	0.03	12.24	0.0133	-0.0216	-0.6820	-1.9848	-0.0040	0.2873	-1.6256		
12	0.02	11.51	0.0294	-0.0991	-0.5386	-2.2735	-0.0020	0.2940	-3.3728		
13	0.02	10.72	0.0173	-0.0912	-0.3980	-2.5445	-0.0010	0.3242	-5.2728		
14	0.03	9.92	0.0381	-0.0963	-0.1878	-2.8957	0.0070	0.3545	-2.5286		
15	0.02	9.10	0.0300	-0.1130	-0.0173	-3.2504	0.0050	0.3844	-3.7607		
16	0.02	8.30	0.0323	-0.1332	0.1476	-3.6144	0.0070	0.4135	-4.1245		
17	0.02	7.47	0.0492	-0.2059	0.3031	-3.9428	0.0060	0.4206	-4.1846		
18	0.02	6.70	0.0363	-0.1788	0.4825	-4.3771	0.0060	0.4327	-4.9262		
19	0.02	5.88	0.0412	-0.1827	0.6224	-4.7319	0.0090	0.4423	-4.4340		
20	0.02	5.07	0.0549	-0.2148	0.7259	-5.0897	0.0070	0.4638	-3.9137		
21	0.02	4.24	0.0526	-0.2126	0.8916	-5.5257	0.0090	0.5016	-4.0426		
22	0.02	3.51	0.0514	-0.2339	1.0798	-5.9581	0.0090	0.5389	-4.5517		
23	0.02	2.72	0.0523	-0.2212	1.2039	-6.3309	0.0090	0.5764	-4.2298		
24	0.02	1.95	0.0705	-0.2617	1.3379	-6.6545	0.0060	0.5994	-3.7121		
25	0.02	1.15	0.0517	-0.2274	1.5083	-7.0620	0.0050	0.6307	-4.3981		
26	0.02	0.43	0.0493	-0.2150	1.6094	-7.4225	0.0060	0.6587	-4.3615		
27	0.01	-0.36	0.0675	-0.2765	1.7735	-7.7832	0.0080	0.6802	-4.0963		
28	0.02	-1.15	0.0723	-0.2812	1.8602	-8.1005	0.0060	0.7023	-3.8896		
29	0.01	-1.91	0.0602	-0.2702	2.0123	-8.4135	0.0070	0.7164	-4.4897		
30	0.01	-2.75	0.0475	-0.2585	2.1386	-8.7523	0.0060	0.7355	-5.4421		
31	0.01	-3.56	0.0629	-0.2790	2.2735	-9.1331	0.0070	0.7633	-4.4366		
32	0.01	-4.38	0.0544	-0.2661	2.4452	-9.4655	0.0100	0.7791	-4.8926		
33	0.01	-5.12	0.0623	-0.2812	2.5822	-9.6712	0.0100	0.7926	-4.5140		
34	0.02	-5.91	0.0604	-0.2765	2.6426	-9.9738	0.0110	0.8185	-4.5788		
35	0.01	-6.67	0.0775	-0.3075	2.7644	-10.0394	0.0160	0.8453	-3.9677		
36	0.01	-7.51	0.0796	-0.3224	2.7487	-9.9284	0.0230	0.8761	-4.0508		
37	0.01	-8.25	0.0741	-0.2927	2.8082	-9.6868	0.0130	0.8760	-3.9506		
38	0.02	-9.04	0.0592	-0.2718	2.7552	-9.1866	0.0030	0.8674	-4.0182		
39	0.02	-9.81	0.0531	-0.2303	2.8264	-9.2353	0.0100	0.8729	-4.3379		
40	0.02	-10.60	0.0244	-0.1431	2.9779	-9.3024	-0.0090	0.8693	-5.8672		
41	0.02	-11.33	0.0320	-0.1408	3.0368	-9.3649	-0.0130	0.8673	-4.4000		
42	0.01	-12.10	0.0499	-0.2378	3.1507	-9.4723	-0.0060	0.8538	-4.7667		
43	0.01	-12.86	0.0512	-0.2956	3.2520	-9.5661	-0.0020	0.8455	-5.7750		
44	0.01	-13.65	0.0607	-0.2759	3.3861	-9.6648	-0.0030	0.8393	-4.5466		
45	0.01	-14.48	0.0385	-0.2189	3.5446	-9.8728	-0.0070	0.8338	-5.0857		
46	0.01	-15.30	0.0499	-0.3108	3.6530	-9.9676	-0.0010	0.8416	-6.2297		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	116	0.97	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	-16.12	0.0460	-0.2554	3.7811	-10.2099	-0.0180	0.8434	-5.5522
48	0.01	-16.89	0.0721	-0.3289	3.5684	-10.3131	0.0	0.8512	-4.5623
49	0.02	-17.77	0.0558	-0.2921	4.1814	-10.6113	-0.0110	0.8574	-5.2351
50	0.01	-18.61	0.0608	-0.3071	4.3378	-10.6294	-0.0030	0.8521	-5.0513
51	0.02	-19.45	0.0584	-0.2497	4.5157	-10.6734	-0.0220	0.8387	-4.2767
52	0.02	-20.19	0.0488	-0.2533	4.6292	-10.6323	-0.0310	0.8238	-5.1910

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	116	0.97 1.7	0.0	B2W0F12	0.0	20	0	20	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.61	-0.2943	-0.0196	-0.0647	0.0667	0.2198	0.0386	0.0007	0.0046	0.0181	0.1182
2	0.02	19.24	-0.2878	-0.0196	-0.0601	0.0682	0.2089	0.0331	0.0008	0.0037	0.0257	0.1127
3	0.02	18.53	-0.2703	-0.0188	-0.0542	0.0697	0.2004	0.0389	0.0006	0.0033	0.0167	0.0839
4	0.02	17.70	-0.2464	-0.0187	-0.0437	0.0759	0.1774	0.0328	0.0004	0.0052	0.0137	0.1594
5	0.03	16.89	-0.2012	-0.0172	-0.0263	0.0855	0.1309	0.0318	0.0003	0.0038	0.0094	0.1194
6	0.02	16.09	-0.1515	-0.0162	-0.0122	0.1072	0.0804	0.0294	0.0015	0.0005	0.0527	0.0169
7	0.03	15.33	-0.1065	-0.0156	0.0045	0.1469	-0.0424	0.0361	0.0012	0.0027	0.0332	0.0756
8	0.02	14.56	-0.0601	-0.0145	0.0164	0.2412	-0.2724	0.0240	0.0013	0.0006	0.0464	0.0225
9	0.02	13.79	-0.0166	-0.0141	0.0354	0.8523	-2.1306	0.0324	0.0008	0.0005	0.0247	0.0153
10	0.03	13.00	0.0234	-0.0142	0.0532	-0.6667	2.2734	0.0189	0.0014	-0.0031	0.0767	-0.1641
11	0.03	12.24	0.0709	-0.0140	0.0702	-0.1974	0.9905	0.0332	0.0011	0.0028	0.0331	0.0832
12	0.02	11.51	0.1035	-0.0133	0.0867	-0.1290	0.8376	0.0277	0.0007	0.0017	0.0253	0.0625
13	0.02	10.72	0.1580	-0.0141	0.1033	-0.0895	0.6541	0.0197	0.0012	-0.0007	0.0609	-0.0373
14	0.03	9.92	0.1971	-0.0143	0.1226	-0.0725	0.6219	0.0231	0.0016	-0.0034	0.0693	-0.1473
15	0.02	9.10	0.2609	-0.0155	0.1438	-0.0594	0.5513	0.0183	0.0013	-0.0011	0.0710	-0.0602
16	0.02	8.30	0.3066	-0.0158	0.1641	-0.0515	0.5350	0.0213	0.0014	-0.0021	0.0681	-0.0987
17	0.02	7.47	0.3698	-0.0169	0.1828	-0.0458	0.4943	0.0291	0.0014	0.0004	0.0481	0.0136
18	0.02	6.70	0.4345	-0.0186	0.2056	-0.0429	0.4731	0.0209	0.0011	0.0001	0.0550	0.0031
19	0.02	5.88	0.4963	-0.0198	0.2237	-0.0399	0.4507	0.0131	0.0011	-0.0025	0.0878	-0.1935
20	0.02	5.07	0.5464	-0.0207	0.2392	-0.0379	0.4377	0.0170	0.0011	-0.0009	0.0647	-0.0550
21	0.02	4.24	0.6044	-0.0219	0.2615	-0.0363	0.4326	0.0107	0.0012	-0.0042	0.1121	-0.3958
22	0.02	3.51	0.6683	-0.0226	0.2832	-0.0338	0.4237	0.0146	0.0009	-0.0027	0.0616	-0.1873
23	0.02	2.72	0.7300	-0.0235	0.2997	-0.0322	0.4106	0.0147	0.0010	-0.0030	0.0714	-0.2042
24	0.02	1.95	0.7630	-0.0242	0.3153	-0.0317	0.4133	0.0147	0.0010	-0.0030	0.0680	-0.2042
25	0.02	1.15	0.8328	-0.0241	0.3296	-0.0290	0.3958	0.0108	0.0011	-0.0043	0.1018	-0.3983
26	0.02	0.43	0.8988	-0.0246	0.3467	-0.0274	0.3857	0.0137	0.0010	-0.0046	0.0730	-0.3383
27	0.01	-0.36	0.9360	-0.0241	0.3603	-0.0257	0.3849	0.0093	0.0012	-0.0041	0.1290	-0.4410
28	0.02	-1.15	0.9993	-0.0236	0.3730	-0.0237	0.3732	0.0055	0.0015	-0.0062	0.2727	-1.1213
29	0.01	-1.91	1.0411	-0.0206	0.3855	-0.0198	0.3703	0.0045	0.0013	-0.0076	0.2999	-1.6890
30	0.01	-2.75	1.0916	-0.0194	0.3953	-0.0178	0.3622	0.0045	0.0012	-0.0076	0.2666	-1.6890
31	0.01	-3.56	1.1383	-0.0174	0.4064	-0.0153	0.3570	0.0047	0.0014	-0.0086	0.2478	-1.8370
32	0.01	-4.38	1.1841	-0.0135	0.4158	-0.0114	0.3511	0.0059	0.0015	-0.0077	0.2542	-1.3109
33	0.01	-5.12	1.2093	-0.0035	0.4118	-0.0029	0.3406	0.0045	0.0015	-0.0076	0.3444	-1.6890
34	0.02	-5.91	1.2516	0.0019	0.4153	0.0016	0.3319	0.0045	0.0015	-0.0076	0.3333	-1.6890
35	0.01	-6.67	1.2752	0.0098	0.4192	0.0077	0.3287	0.0060	0.0014	-0.0078	0.2333	-1.3001
36	0.01	-7.51	1.2634	0.0189	0.4090	0.0150	0.3237	0.0184	-0.0012	-0.0046	-0.0652	-0.2483
37	0.01	-8.25	1.2082	0.0190	0.3777	0.0158	0.3126	0.0099	0.0016	-0.0067	0.1616	-0.6769
38	0.02	-9.04	1.1251	0.0158	0.3465	0.0140	0.3083	0.0059	0.0019	-0.0079	0.3220	-1.3448
39	0.02	-9.81	1.1394	0.0157	0.3522	0.0138	0.3091	0.0097	0.0015	-0.0059	0.1598	-0.6049
40	0.02	-10.60	1.1249	0.0131	0.3471	0.0116	0.3086	0.0055	0.0028	-0.0097	5.5990	-19.4668
41	0.02	-11.33	1.1273	0.0109	0.3488	0.0097	0.3094	0.0139	0.0022	-0.0060	0.1618	-0.4294
42	0.01	-12.10	1.1372	0.0100	0.3523	0.0088	0.3098	0.0113	0.0024	-0.0069	0.2124	-0.6137
43	0.01	-12.86	1.1677	0.0078	0.3572	0.0067	0.3059	0.0215	0.0024	-0.0022	0.1116	-0.1040
44	0.01	-13.65	1.1433	0.0077	0.3543	0.0068	0.3099	0.0088	0.0038	-0.0095	0.4317	-1.0759
45	0.01	-14.48	1.1859	0.0066	0.3645	0.0056	0.3073	0.0133	0.0039	-0.0046	0.2969	-0.3435
46	0.01	-15.30	1.2078	0.0059	0.3691	0.0049	0.3056	0.0158	0.0033	-0.0027	0.2088	-0.1731

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6												
6 116 0.97 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 B2WOF12 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	0.02	-16.12	1.2210	0.0051	0.3742	0.0042	0.3064	0.0195	-0.0004	0.0025	-0.0205	0.1281
48	0.01	-16.89	1.2596	0.0049	0.3831	0.0039	0.3042	0.0191	0.0013	-0.0032	0.0681	-0.1694
49	0.02	-17.77	1.2900	0.0037	0.3929	0.0029	0.3046	0.0188	0.0016	-0.0021	0.0878	-0.1136
50	0.01	-18.61	1.2929	0.0041	0.3966	0.0032	0.3068	0.0258	-0.0003	-0.0004	-0.0116	-0.0156
51	0.02	-19.45	1.2892	0.0032	0.3951	0.0025	0.3065	0.0254	0.0035	-0.0010	0.1397	-0.0408
52	0.02	-20.19	1.2894	0.0035	0.3949	0.0027	0.3063	0.0323	0.0014	0.0014	0.0449	0.0422

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 116 0.97 1.7			0.0	B2WOF12	0.0	20	0	20	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XLPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	19.61	-0.2464	-0.0187	-0.0800	0.0761	0.3247	-0.0062	0.0038	0.0012	-0.6128	-0.1990
2	0.02	19.24	-0.2458	-0.0192	-0.0815	0.0781	0.3316	-0.0019	0.0011	0.0004	-0.6052	-0.1931
3	0.02	18.53	-0.2255	-0.0188	-0.0722	0.0836	0.3204	-0.0031	0.0019	0.0007	-0.6128	-0.2152
4	0.02	17.70	-0.1892	-0.0182	-0.0593	0.0962	0.3137	-0.0060	0.0037	0.0012	-0.6166	-0.2001
5	0.03	16.89	-0.1527	-0.0172	-0.0466	0.1129	0.3051	-0.0081	-0.0050	-0.0018	-0.6172	-0.2223
6	0.02	16.09	-0.1064	-0.0169	-0.0253	0.1593	0.2383	0.0031	-0.0014	-0.0007	-0.6128	-0.2152
7	0.03	15.33	-0.0632	-0.0158	-0.0120	0.2500	0.1392	0.0049	-0.0030	-0.0011	-0.6223	-0.2178
8	0.02	14.56	-0.0209	-0.0156	0.0029	0.2463	-0.1405	0.0081	-0.0050	-0.0018	-0.6172	-0.2223
9	0.02	13.79	0.0245	-0.0149	0.0247	-0.6081	1.0067	0.0108	-0.0066	-0.0024	-0.6156	-0.2223
10	0.03	13.00	0.0574	-0.0148	0.0430	-0.2578	0.7496	0.0106	-0.0065	-0.0023	-0.6178	-0.2140
11	0.03	12.24	0.0979	-0.0141	0.0603	-0.1440	0.6162	0.0118	-0.0072	-0.0026	-0.6143	-0.2176
12	0.02	11.51	0.1431	-0.0139	0.0812	-0.0575	0.5673	0.0102	-0.0062	-0.0022	-0.6126	-0.2158
13	0.02	10.72	0.1955	-0.0140	0.1018	-0.0716	0.5209	0.0112	-0.0069	-0.0025	-0.6160	-0.2204
14	0.03	9.92	0.2387	-0.0135	0.1202	-0.0582	0.5037	0.0130	-0.0080	-0.0029	-0.6153	-0.2206
15	0.02	9.10	0.2795	-0.0141	0.1419	-0.0504	0.5077	0.0117	-0.0072	-0.0025	-0.6153	-0.2138
16	0.02	8.30	0.3274	-0.0148	0.1637	-0.0453	0.4999	0.0121	-0.0074	-0.0027	-0.6156	-0.2205
17	0.02	7.47	0.3926	-0.0151	0.1835	-0.0386	0.4674	0.0113	-0.0069	-0.0024	-0.6149	-0.2155
18	0.02	6.70	0.4298	-0.0160	0.2093	-0.0372	0.4870	0.0076	-0.0047	-0.0017	-0.6183	-0.2194
19	0.02	5.88	0.4966	-0.0175	0.2302	-0.0352	0.4635	0.0074	-0.0045	-0.0016	-0.6148	-0.2208
20	0.02	5.07	0.5305	-0.0179	0.2544	-0.0338	0.4795	0.0074	-0.0045	-0.0016	-0.6148	-0.2208
21	0.02	4.24	0.5993	-0.0188	0.2747	-0.0314	0.4583	0.0056	-0.0034	-0.0012	-0.6070	-0.2204
22	0.02	3.51	0.6498	-0.0186	0.2944	-0.0286	0.4531	0.0043	-0.0026	-0.0010	-0.6162	-0.2249
23	0.02	2.72	0.7024	-0.0192	0.3158	-0.0274	0.4497	0.0039	-0.0024	-0.0008	-0.6153	-0.2052
24	0.02	1.95	0.7584	-0.0184	0.3325	-0.0243	0.4389	0.0037	-0.0023	-0.0008	-0.6215	-0.2073
25	0.02	1.15	0.8020	-0.0182	0.3518	-0.0227	0.4387	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
26	0.02	0.43	0.8628	-0.0174	0.3664	-0.0202	0.4246	0.0033	-0.0020	-0.0007	-0.6211	-0.2122
27	0.01	-0.36	0.9164	-0.0163	0.3809	-0.0178	0.4156	0.0034	-0.0024	-0.0008	-0.6153	-0.2052
28	0.02	-1.15	0.9517	-0.0150	0.3967	-0.0158	0.4168	0.0037	-0.0022	-0.0008	-0.6080	-0.2073
29	0.01	-1.91	1.0149	-0.0121	0.4074	-0.0120	0.4014	0.0040	-0.0024	-0.0009	-0.6124	-0.2168
30	0.01	-2.75	1.0555	-0.0102	0.4223	-0.0097	0.4001	0.0044	-0.0027	-0.0009	-0.6135	-0.2122
31	0.01	-3.56	1.1136	-0.0077	0.4313	-0.0069	0.3873	0.0034	-0.0020	-0.0008	-0.6028	-0.2256
32	0.01	-4.38	1.1581	-0.0030	0.4369	-0.0026	0.3772	0.0027	-0.0016	-0.0006	-0.6110	-0.2223
33	0.01	-5.12	1.1825	0.0084	0.4309	0.0071	0.3644	0.0024	-0.0015	-0.0005	-0.6249	-0.2085
34	0.02	-5.91	1.2023	0.0150	0.4326	0.0125	0.3600	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
35	0.01	-6.67	1.2228	0.0256	0.4264	0.0210	0.3487	0.0021	-0.0012	-0.0005	-0.5951	-0.2382
36	0.01	-7.51	1.2121	0.0299	0.4084	0.0247	0.3369	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
37	0.01	-8.25	1.1724	0.0281	0.3920	0.0240	0.3343	0.0019	-0.0011	-0.0005	-0.6052	-0.2457
38	0.02	-9.04	1.1214	0.0249	0.3678	0.0222	0.3280	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
39	0.02	-9.81	1.1122	0.0234	0.3582	0.0211	0.3221	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
40	0.02	-10.60	1.1363	0.0225	0.3665	0.0198	0.3226	0.0018	-0.0011	-0.0004	-0.6110	-0.2223
41	0.02	-11.33	1.1203	0.0206	0.3615	0.0184	0.3227	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
42	0.01	-12.10	1.1501	0.0200	0.3657	0.0174	0.3180	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
43	0.01	-12.86	1.1317	0.0185	0.3641	0.0164	0.3217	0.0023	-0.0014	-0.0005	-0.6303	-0.2320
44	0.01	-13.65	1.1545	0.0174	0.3695	0.0151	0.3201	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
45	0.01	-14.48	1.1560	0.0170	0.3760	0.0147	0.3253	0.0021	-0.0012	-0.0005	-0.5951	-0.2382
46	0.01	-15.30	1.1741	0.0157	0.3841	0.0134	0.3272	0.0017	-0.0010	-0.0003	-0.6175	-0.1962

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6												
6 116 0.97 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 82WOF12 0.0 20 0 20 U FIXED												
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
47	0.02	-16.12	1.2085	0.0152	0.3941	0.0126	0.3261	0.0024	-0.0014	-0.0005	-0.6041	-0.2085
48	0.01	-16.89	1.2117	0.0147	0.3945	0.0121	0.3255	0.0019	-0.0011	-0.0005	-0.6052	-0.2457
49	0.02	-17.77	1.2468	0.0151	0.4035	0.0121	0.3237	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
50	0.01	-18.61	1.2614	0.0148	0.4102	0.0118	0.3252	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
51	0.02	-19.45	1.2812	0.0173	0.4155	0.0135	0.3243	0.0012	-0.0007	-0.0003	-0.6249	-0.2501
52	0.02	-20.19	1.2985	0.0193	0.4183	0.0149	0.3221	0.0016	-0.0010	-0.0004	-0.6249	-0.2293

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			117	1.01	1.7	0.0	B2NOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	0.03	19.59	0.0248	-0.0357	-2.1784	-0.3718	-0.0190	0.0810	-1.4403				
2	0.03	19.34	0.0075	0.0415	-2.1294	-0.4324	-0.0170	0.0926	5.5333				
3	0.03	18.58	0.0172	0.0269	-2.0165	-0.4914	-0.0140	0.1075	1.5651				
4	0.02	17.80	0.0289	-0.0914	-1.6575	-0.7101	-0.0230	0.1315	-3.1647				
5	0.03	16.92	-0.0006	0.0828	-1.7060	-0.8422	-0.0180	0.1540	-138.0666				
6	0.03	16.18	-0.0063	0.1188	-1.4984	-1.0678	-0.0130	0.1882	-18.8603				
7	0.03	15.37	0.0339	-0.0555	-1.3270	-1.2628	-0.0220	0.2080	-1.6360				
8	0.02	14.66	0.0057	0.0080	-1.1341	-1.4839	-0.0100	0.2430	1.4070				
9	0.03	13.84	0.0163	0.0254	-0.5980	-1.6184	-0.0080	0.2601	1.3869				
10	0.03	13.07	0.0273	-0.0632	-0.8754	-1.8461	-0.0130	0.2838	-2.3157				
11	0.02	12.32	0.0204	-0.1275	-0.6865	-2.0615	-0.0110	0.3118	-6.2529				
12	0.03	11.56	0.0169	-0.0147	-0.5576	-2.2679	-0.0020	0.3310	-0.8675				
13	0.02	10.76	0.0297	-0.0676	-0.4365	-2.4594	0.0030	0.3393	-2.2754				
14	0.02	9.98	0.0355	-0.1317	-0.2254	-2.8171	0.0010	0.3616	-3.7099				
15	0.02	9.22	0.0452	-0.1263	-0.0691	-3.1728	0.0020	0.3909	-2.7938				
16	0.02	8.36	0.0422	-0.1251	0.0532	-3.4840	0.0090	0.4210	-2.9640				
17	0.02	7.59	0.0391	-0.1707	0.2742	-3.8904	0.0080	0.4483	-4.3667				
18	0.03	6.79	0.0517	-0.1444	0.3768	-4.2110	0.0110	0.4715	-2.7926				
19	0.02	6.00	0.0510	-0.1814	0.5073	-4.5088	0.0090	0.4978	-3.5569				
20	0.02	5.17	0.0652	-0.2292	0.7328	-4.9604	0.0080	0.5345	-3.5106				
21	0.02	4.35	0.0506	-0.2128	0.8055	-5.2662	0.0060	0.5598	-4.2063				
22	0.02	3.57	0.0738	-0.2673	0.9781	-5.6557	0.0040	0.5894	-3.6222				
23	0.02	2.84	0.0708	-0.2631	1.1827	-6.0503	0.0060	0.6219	-3.7164				
24	0.02	2.04	0.0580	-0.2422	1.2714	-6.3434	0.0050	0.6530	-4.1759				
25	0.02	1.29	0.0674	-0.2783	1.4343	-6.8154	0.0050	0.6855	-4.1300				
26	0.01	0.51	0.0669	-0.2786	1.4991	-7.0701	0.0080	0.7098	-4.1653				
27	0.02	-0.21	0.0649	-0.2478	1.6943	-7.4843	0.0050	0.7415	-3.8191				
28	0.02	-1.07	0.0595	-0.2433	1.8265	-7.8643	0.0050	0.7630	-4.0891				
29	0.01	-1.83	0.0620	-0.2668	1.9742	-8.1592	0.0060	0.7844	-4.3032				
30	0.01	-2.65	0.0592	-0.2608	2.0808	-8.4984	0.0080	0.8046	-4.4068				
31	0.02	-3.44	0.0608	-0.2481	2.2106	-8.8001	0.0080	0.8274	-4.0809				
32	0.02	-4.24	0.0833	-0.3016	2.3189	-9.1257	0.0050	0.8446	-3.6209				
33	0.02	-5.03	0.0656	-0.2518	2.5392	-9.5540	0.0030	0.8597	-3.8390				
34	0.01	-5.79	0.0494	-0.2511	2.5724	-9.7925	0.0040	0.8880	-5.0842				
35	0.02	-6.60	0.0630	-0.2572	2.7417	-10.1276	0.0050	0.9067	-4.0825				
36	0.02	-7.39	0.0662	-0.2846	2.8892	-10.3421	0.0070	0.9206	-4.3003				
37	0.02	-8.19	0.0752	-0.3012	3.0118	-10.5287	0.0120	0.9226	-4.0064				
38	0.02	-8.96	0.0507	-0.2289	3.0487	-10.5934	0.0040	0.9373	-4.5164				
39	0.02	-9.77	0.0788	-0.3223	3.1442	-10.5941	0.0120	0.9531	-4.0904				
40	0.02	-10.51	0.0630	-0.2342	3.2398	-10.4929	0.0020	0.9438	-3.7175				
41	0.02	-11.28	0.0649	-0.2518	3.2888	-10.4285	-0.0090	0.9349	-3.8807				
42	0.02	-12.02	0.0705	-0.2557	3.3544	-10.3574	-0.0050	0.9366	-3.6270				
43	0.02	-12.83	0.0506	-0.2108	3.4693	-10.3794	-0.0140	0.9291	-4.1668				
44	0.01	-13.57	0.0517	-0.2423	3.5354	-10.3789	-0.0060	0.9247	-4.6882				
45	0.02	-14.41	0.0632	-0.2524	3.6996	-10.6267	-0.0070	0.9314	-3.9949				
46	0.01	-15.26	0.0505	-0.2977	3.8175	-10.6878	-0.0060	0.9336	-5.8950				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 117 1.01 1.7				0.0	82WOF12	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CIL	CAF	XCP		
47	0.01	-16.07	0.0568	-0.2505	4.0054	-10.9188	-0.0060	0.9400	-4.4106		
48	0.02	-16.89	0.0574	-0.2423	4.1685	-10.9962	-0.0100	0.9433	-4.2223		
49	0.02	-17.72	0.0412	-0.1857	4.2430	-11.1906	-0.0040	0.9364	-4.5068		
50	0.02	-18.56	0.0574	-0.2523	4.4217	-11.2537	-0.0180	0.9230	-4.3965		
51	0.01	-19.39	0.0556	-0.3108	4.6101	-11.2855	-0.0170	0.9275	-5.5906		
52	0.01	-20.13	0.0595	-0.3273	4.8245	-11.2047	-0.0240	0.9074	-5.5008		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		117		1.01		1.7	0.0	82WOF12	0.0	20	0	20	0	FIXED
PGINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2		
1	0.03	19.59	-0.3055	-0.0191	-0.0557	0.0627	0.1824	0.0560	0.0008	0.0080	0.0152	0.1421		
2	0.03	19.34	-0.3061	-0.0195	-0.0538	0.0638	0.1758	0.0471	0.0012	0.0052	0.0255	0.1103		
3	0.03	18.58	-0.2768	-0.0185	-0.0408	0.0668	0.1472	0.0476	0.0006	0.0034	0.0137	0.0706		
4	0.02	17.80	-0.2464	-0.0183	-0.0337	0.0743	0.1368	0.0489	0.0012	0.0033	0.0245	0.0674		
5	0.03	16.92	-0.2173	-0.0173	-0.0200	0.0796	0.0921	0.0489	0.0014	0.0031	0.0296	0.0633		
6	0.03	16.18	-0.1639	-0.0164	-0.0035	0.1000	0.0214	0.0439	0.0011	0.0014	0.0251	0.0325		
7	0.03	15.37	-0.1268	-0.0155	0.0072	0.1226	-0.0572	0.0447	0.0012	0.0036	0.0280	0.0804		
8	0.02	14.66	-0.0872	-0.0147	0.0215	0.1691	-0.2471	0.0427	0.0011	0.0008	0.0269	0.0194		
9	0.03	13.84	-0.0488	-0.0144	0.0372	0.2961	-0.7631	0.0403	0.0015	-0.0010	0.0372	-0.0241		
10	0.03	13.07	-0.0135	-0.0140	0.0514	1.0369	-3.8075	0.0398	0.0009	0.0016	0.0239	0.0392		
11	0.02	12.32	0.0455	-0.0135	0.0684	-0.2977	1.5046	0.0433	0.0009	0.0038	0.0219	0.0884		
12	0.03	11.56	0.0829	-0.0137	0.0867	-0.1652	1.0461	0.0336	0.0014	-0.0012	0.0417	-0.0358		
13	0.02	10.76	0.1434	-0.0135	0.0995	-0.0941	0.6937	0.0353	0.0014	-0.0023	0.0411	-0.0662		
14	0.02	9.98	0.1835	-0.0141	0.1221	-0.0768	0.6656	0.0398	0.0013	0.0018	0.0327	0.0443		
15	0.02	9.22	0.2213	-0.0143	0.1407	-0.0648	0.6360	0.0378	0.0009	-0.0008	0.0251	-0.0213		
16	0.02	8.36	0.2680	-0.0161	0.1631	-0.0603	0.6086	0.0341	0.0016	-0.0028	0.0469	-0.0832		
17	0.02	7.59	0.3230	-0.0172	0.1821	-0.0532	0.5638	0.0312	0.0018	-0.0018	0.0593	-0.0578		
18	0.03	6.79	0.3854	-0.0184	0.1981	-0.0477	0.5140	0.0304	0.0013	-0.0042	0.0428	-0.1372		
19	0.02	6.00	0.4319	-0.0201	0.2211	-0.0466	0.5119	0.0314	0.0010	-0.0022	0.0334	-0.0712		
20	0.02	5.17	0.4974	-0.0212	0.2394	-0.0427	0.4814	0.0312	0.0007	-0.0012	0.0240	-0.0386		
21	0.02	4.35	0.5379	-0.0226	0.2580	-0.0420	0.4797	0.0300	0.0008	-0.0018	0.0283	-0.0601		
22	0.02	3.57	0.5995	-0.0231	0.2729	-0.0386	0.4553	0.0260	0.0005	-0.0021	0.0192	-0.0822		
23	0.02	2.84	0.6593	-0.0246	0.2948	-0.0374	0.4471	0.0275	0.0008	-0.0032	0.0309	-0.1177		
24	0.02	2.04	0.7112	-0.0251	0.3101	-0.0353	0.4360	0.0197	0.0009	-0.0042	0.0457	-0.2150		
25	0.02	1.29	0.7766	-0.0259	0.3254	-0.0334	0.4191	0.0249	0.0009	-0.0038	0.0361	-0.1527		
26	0.01	0.51	0.8369	-0.0262	0.3405	-0.0313	0.4068	0.0249	0.0011	-0.0038	0.0442	-0.1527		
27	0.02	-0.21	0.8548	-0.0269	0.3561	-0.0301	0.3979	0.0178	0.0008	-0.0019	0.0449	-0.1050		
28	0.02	-1.07	0.9360	-0.0265	0.3719	-0.0283	0.3973	0.0182	0.0010	-0.0040	0.0577	-0.2217		
29	0.01	-1.83	0.9868	-0.0263	0.3792	-0.0267	0.3843	0.0184	0.0012	-0.0050	0.0652	-0.2700		
30	0.01	-2.65	1.0393	-0.0250	0.3941	-0.0240	0.3792	0.0122	0.0011	-0.0067	0.0901	-0.5520		
31	0.02	-3.44	1.0937	-0.0237	0.4023	-0.0217	0.3679	0.0085	0.0012	-0.0082	0.1412	-0.9609		
32	0.02	-4.24	1.1370	-0.0223	0.4125	-0.0197	0.3628	0.0172	0.0007	-0.0050	0.0436	-0.2889		
33	0.02	-5.03	1.1939	-0.0201	0.4254	-0.0168	0.3567	0.0142	0.0012	-0.0094	0.0845	-0.6597		
34	0.01	-5.79	1.2415	-0.0185	0.4337	-0.0149	0.3493	0.0126	0.0011	-0.0082	0.0913	-0.6509		
35	0.02	-6.60	1.2788	-0.0156	0.4415	-0.0122	0.3453	0.0124	0.0007	-0.0073	0.0605	-0.5861		
36	0.02	-7.39	1.3026	-0.0078	0.4363	-0.0060	0.3350	0.0139	0.0008	-0.0077	0.0575	-0.5517		
37	0.02	-8.19	1.3305	-0.0019	0.4358	-0.0014	0.3276	0.0074	0.0012	-0.0088	0.1689	-1.1938		
38	0.02	-8.96	1.3291	0.0085	0.4323	0.0064	0.3252	0.0126	0.0014	-0.0082	0.1151	-0.6509		
39	0.02	-9.77	1.3605	0.0107	0.4298	0.0079	0.3159	0.0179	-0.0003	-0.0067	-0.0195	-0.3763		
40	0.02	-10.51	1.3134	0.0112	0.4143	0.0086	0.3155	0.0129	0.0031	-0.0104	0.2403	-0.8063		
41	0.02	-11.28	1.2933	0.0092	0.4028	0.0071	0.3115	0.0112	0.0016	-0.0083	0.1428	-0.7382		
42	0.02	-12.02	1.2881	0.0069	0.3583	0.0054	0.3092	0.0186	0.0017	-0.0050	0.0914	-0.2689		
43	0.02	-12.83	1.2712	0.0041	0.3929	0.0032	0.3091	0.0151	0.0019	-0.0073	0.1258	-0.4814		
44	0.01	-13.57	1.2648	0.0034	0.3912	0.0027	0.3093	0.0189	0.0021	-0.0064	0.1111	-0.3387		
45	0.02	-14.41	1.2856	0.0018	0.3986	0.0014	0.3100	0.0139	0.0023	-0.0083	0.1654	-0.5948		
46	0.01	-15.26	1.3226	0.0013	0.4065	0.0010	0.3074	0.0199	0.0013	-0.0043	0.0678	-0.2145		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 117 1.01 1.7 0.0 82WOF12 0.0 20 0 20 0 FIXED												
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	-16.07	1.3445	0.0009	0.4131	0.0007	0.3073	0.0159	0.0021	-0.0051	0.1321	-0.3209
48	0.02	-16.89	1.3575	0.0002	0.4167	0.0001	0.3070	0.0173	0.0015	-0.0048	0.0867	-0.2795
49	0.02	-17.72	1.3867	-0.0001	0.4190	-0.0001	0.3021	0.0134	0.0006	-0.0050	0.0448	-0.3757
50	0.02	-18.56	1.3903	-0.0002	0.4251	-0.0001	0.3057	0.0294	-0.0012	0.0038	-0.0408	0.1291
51	0.01	-19.39	1.4081	0.0000	0.4277	0.0000	0.3037	0.0249	-0.0007	-0.0005	-0.0301	-0.0202
52	0.01	-20.13	1.4117	-0.0006	0.4272	-0.0005	0.3026	0.0334	0.0	0.0035	0.0	0.1057

PAGE 3 OF 3
SHEET 1 OF 2

MARTIA MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6	117	1.01	1.7	0.0	82	WOF12	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCFF3	CNF4	CH4	CB4	XCFF4	YCFF4
1	0.03	19.59	-0.2225	-0.0171	-0.0842	0.0768	0.3786	-0.0027	0.0017	0.0005	-0.6295	-0.1853
2	0.03	19.34	-0.2188	-0.0168	-0.0847	0.0768	0.3871	0.0006	-0.0003	-0.0001	-0.5832	-0.1668
3	0.03	18.58	-0.2074	-0.0166	-0.0738	0.0833	0.3559	0.0049	-0.0030	-0.0011	-0.6223	-0.2178
4	0.02	17.80	-0.1804	-0.0159	-0.0601	0.0884	0.3332	0.0052	-0.0032	-0.0012	-0.6153	-0.2245
5	0.03	16.92	-0.1349	-0.0158	-0.0433	0.1171	0.3214	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
6	0.03	16.18	-0.1044	-0.0152	-0.0301	0.1456	0.2882	0.0110	-0.0067	-0.0024	-0.6135	-0.2213
7	0.03	15.37	-0.0465	-0.0146	-0.0109	0.3139	0.2343	0.0032	-0.0019	-0.0007	-0.6093	-0.2293
8	0.02	14.66	-0.0014	-0.0141	0.0000	10.0696	-0.0239	0.0076	-0.0047	-0.0017	-0.6183	-0.2194
9	0.03	13.84	0.0136	-0.0133	0.0166	-0.9778	1.2229	0.0107	-0.0065	-0.0023	-0.6120	-0.2182
10	0.03	13.07	0.0679	-0.0130	0.0346	-0.1914	0.5099	0.0094	-0.0058	-0.0021	-0.6169	-0.2200
11	0.02	12.32	0.1073	-0.0126	0.0556	-0.1174	0.5187	0.0079	-0.0048	-0.0018	-0.6138	-0.2237
12	0.03	11.56	0.1413	-0.0127	0.0740	-0.0899	0.5236	0.0124	-0.0076	-0.0028	-0.6128	-0.2232
13	0.02	10.76	0.1889	-0.0125	0.0929	-0.0662	0.4920	0.0118	-0.0072	-0.0026	-0.6143	-0.2176
14	0.02	9.98	0.2262	-0.0130	0.1125	-0.0577	0.4972	0.0122	-0.0075	-0.0026	-0.6146	-0.2160
15	0.02	9.22	0.2820	-0.0135	0.1353	-0.0478	0.4796	0.0146	-0.0090	-0.0031	-0.6163	-0.2147
16	0.02	8.36	0.3261	-0.0141	0.1540	-0.0434	0.4721	0.0116	-0.0071	-0.0025	-0.6163	-0.2185
17	0.02	7.59	0.3763	-0.0149	0.1747	-0.0397	0.4642	0.0101	-0.0062	-0.0022	-0.6138	-0.2212
18	0.03	6.79	0.4246	-0.0157	0.1979	-0.0371	0.4660	0.0092	-0.0056	-0.0020	-0.6140	-0.2211
19	0.02	6.00	0.4749	-0.0168	0.2176	-0.0354	0.4587	0.0079	-0.0048	-0.0018	-0.6138	-0.2237
20	0.02	5.17	0.5306	-0.0178	0.2423	-0.0335	0.4566	0.0068	-0.0042	-0.0014	-0.6175	-0.2109
21	0.02	4.35	0.5918	-0.0192	0.2602	-0.0324	0.4397	0.0067	-0.0041	-0.0015	-0.6143	-0.2190
22	0.02	3.57	0.6497	-0.0192	0.2831	-0.0295	0.4357	0.0056	-0.0034	-0.0012	-0.6160	-0.2204
23	0.02	2.84	0.6977	-0.0193	0.3010	-0.0277	0.4314	0.0042	-0.0025	-0.0009	-0.6070	-0.2144
24	0.02	2.04	0.7453	-0.0200	0.3196	-0.0268	0.4289	0.0037	-0.0023	-0.0008	-0.6215	-0.2073
25	0.02	1.29	0.7920	-0.0194	0.3401	-0.0245	0.4294	0.0033	-0.0020	-0.0007	-0.6060	-0.2122
26	0.01	0.51	0.8505	-0.0189	0.3542	-0.0223	0.4164	0.0034	-0.0021	-0.0008	-0.6175	-0.2256
27	0.02	-0.21	0.9054	-0.0183	0.3710	-0.0203	0.4097	0.0031	-0.0019	-0.0007	-0.6289	-0.2152
28	0.02	-1.07	0.9490	-0.0181	0.3847	-0.0191	0.4054	0.0029	-0.0018	-0.0006	-0.6206	-0.2185
29	0.01	-1.83	0.9973	-0.0173	0.3969	-0.0173	0.3980	0.0031	-0.0019	-0.0007	-0.6289	-0.2152
30	0.01	-2.65	1.0486	-0.0157	0.4105	-0.0150	0.3915	0.0029	-0.0018	-0.0006	-0.6206	-0.2185
31	0.02	-3.44	1.0874	-0.0146	0.4217	-0.0135	0.3878	0.0039	-0.0024	-0.0008	-0.6153	-0.2052
32	0.02	-4.24	1.1502	-0.0110	0.4341	-0.0096	0.3774	0.0033	-0.0020	-0.0007	-0.6211	-0.2122
33	0.02	-5.03	1.1998	-0.0096	0.4457	-0.0080	0.3715	0.0024	-0.0014	-0.0005	-0.6041	-0.2085
34	0.01	-5.79	1.2337	-0.0075	0.4542	-0.0061	0.3681	0.0015	-0.0009	-0.0003	-0.6332	-0.2001
35	0.02	-6.60	1.2796	-0.0076	0.4600	-0.0029	0.3595	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
36	0.02	-7.39	1.3019	0.0046	0.4537	0.0036	0.3485	0.0015	-0.0009	-0.0003	-0.6332	-0.2001
37	0.02	-8.19	1.3120	0.0145	0.4503	0.0110	0.3437	0.0015	-0.0009	-0.0003	-0.6332	-0.2001
38	0.02	-8.96	1.3314	0.0207	0.4450	0.0156	0.3343	0.0020	-0.0012	-0.0004	-0.6249	-0.2168
39	0.02	-9.77	1.3296	0.0217	0.4385	0.0163	0.3298	0.0014	-0.0009	-0.0003	-0.6427	-0.2382
40	0.02	-10.51	1.3261	0.0223	0.4284	0.0168	0.3230	0.0012	-0.0007	-0.0003	-0.6249	-0.2501
41	0.02	-11.28	1.3069	0.0212	0.4230	0.0163	0.3237	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
42	0.02	-12.02	1.2882	0.0171	0.4126	0.0133	0.3203	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
43	0.02	-12.83	1.2770	0.0158	0.4156	0.0124	0.3255	0.0009	-0.0005	-0.0002	-0.6110	-0.2773
44	0.01	-13.57	1.2717	0.0138	0.4108	0.0108	0.3220	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
45	0.02	-14.41	1.3111	0.0136	0.4202	0.0104	0.3205	0.0011	-0.0007	-0.0002	-0.6363	-0.2422
46	0.01	-15.26	1.3026	0.0123	0.4225	0.0095	0.3244	0.0012	-0.0007	-0.0003	-0.6249	-0.2501

553

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		117	1.01	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	-16.07	1.3446	0.0119	0.4325	0.0089	0.3217	0.0006	-0.0003	-0.0001	-0.5832	-0.1668
48	0.02	-16.89	1.3507	0.0119	0.4412	0.0088	0.3266	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
49	0.02	-17.72	1.3616	0.0112	0.4425	0.0083	0.3250	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
50	0.02	-18.56	1.3722	0.0126	0.4466	0.0092	0.3254	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
51	0.01	-19.39	1.4023	0.0141	0.4507	0.0101	0.3214	0.0020	-0.0012	-0.0004	-0.5999	-0.2168
52	0.01	-20.13	1.4036	0.0164	0.4497	0.0117	0.3204	0.0010	-0.0006	-0.0003	-0.5999	-0.2668

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6 118 1.05 1.7 0.0 B2WOF12 0.0 20 0 20 0 FIXED										
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.02	19.50	0.0223	-0.1112	-2.2868	-0.0591	-0.0160	0.1114	-4.9874	
2	0.02	19.52	0.0592	-0.1969	-2.2402	0.0477	-0.0180	0.1119	-3.3257	
3	0.02	19.20	0.0381	-0.1453	-2.1683	-0.0929	-0.0160	0.1299	-3.8147	
4	0.02	18.45	0.0420	-0.1698	-2.1104	-0.1820	-0.0180	0.1270	-4.0429	
5	0.03	17.66	0.0299	-0.0174	-1.9327	-0.3388	-0.0080	0.1632	-0.5973	
6	0.04	16.85	-0.0787	0.3591	-1.7475	-0.5016	0.0110	0.1796	-4.5639	
7	0.03	16.05	0.0126	0.0084	-1.5874	-0.7923	-0.0120	0.2053	0.6635	
8	0.02	15.31	0.0138	-0.0743	-1.3945	-0.9773	-0.0130	0.2404	-5.3855	
9	0.03	14.53	0.0061	0.0215	-1.2343	-1.1645	-0.0070	0.2608	3.5180	
10	0.02	13.76	0.0332	-0.0585	-1.1019	-1.3890	-0.0070	0.2888	-1.7614	
11	0.02	12.97	0.0035	-0.0499	-0.8672	-1.7026	-0.0020	0.3295	-14.2571	
12	0.02	12.23	0.0161	-0.0565	-0.6808	-1.9405	-0.0040	0.3578	-3.5118	
13	0.03	11.45	0.0136	-0.0050	-0.5068	-2.2440	0.0030	0.3844	-0.3706	
14	0.02	10.67	0.0375	-0.0845	-0.3284	-2.5409	-0.0040	0.4071	-2.2533	
15	0.02	9.83	0.0362	-0.0917	-0.2414	-2.8317	0.0040	0.4349	-2.5326	
16	0.03	9.07	0.0309	-0.0862	-0.0526	-3.1599	0.0060	0.4587	-2.7916	
17	0.02	8.28	0.0182	-0.0625	0.0612	-3.4932	0.0100	0.4782	-3.4330	
18	0.02	7.46	0.0411	-0.1855	0.2303	-3.8539	0.0080	0.5004	-4.5144	
19	0.02	6.70	0.0411	-0.1475	0.4285	-4.2225	0.0090	0.5234	-3.5898	
20	0.02	5.89	0.0367	-0.1464	0.6282	-4.5850	0.0100	0.5517	-3.9886	
21	0.02	5.07	0.0430	-0.1592	0.7244	-4.8677	0.0100	0.5862	-3.7023	
22	0.02	4.23	0.0466	-0.2062	0.8554	-5.2570	0.0040	0.5940	-4.4257	
23	0.02	3.49	0.0556	-0.1838	1.0057	-5.6204	0.0110	0.6256	-3.3065	
24	0.02	2.72	0.0647	-0.2295	1.1255	-5.9601	0.0080	0.6524	-3.5484	
25	0.02	1.96	0.0505	-0.2147	1.3198	-6.4032	0.0090	0.6776	-4.2515	
26	0.02	1.15	0.0591	-0.2427	1.3824	-6.7018	0.0060	0.7023	-4.1073	
27	0.02	0.44	0.0465	-0.2031	1.5263	-7.0282	0.0070	0.7274	-4.3677	
28	0.02	-0.36	0.0393	-0.1890	1.6920	-7.4291	0.0100	0.7529	-4.8097	
29	0.02	-1.16	0.0602	-0.2223	1.8023	-7.7525	0.0080	0.7774	-3.6924	
30	0.02	-1.96	0.0785	-0.2649	1.9074	-8.0927	0.0050	0.8005	-3.3745	
31	0.02	-2.74	0.0655	-0.2827	2.0526	-8.4150	0.0060	0.8189	-4.3160	
32	0.02	-3.61	0.0433	-0.2316	2.1756	-8.7271	0.0090	0.8435	-5.3492	
33	0.01	-4.38	0.0770	-0.3128	2.3548	-9.0780	0.0050	0.8532	-4.0623	
34	0.02	-5.14	0.0440	-0.2306	2.4986	-9.4022	0.0060	0.8788	-5.2409	
35	0.01	-5.92	0.0618	-0.3015	2.5766	-9.7154	0.0060	0.8957	-4.8790	
36	0.01	-6.69	0.0542	-0.2858	2.6405	-9.9160	0.0070	0.9087	-5.2745	
37	0.02	-7.51	0.0786	-0.3190	2.6838	-10.1775	0.0050	0.9179	-4.0540	
38	0.01	-8.30	0.0709	-0.3502	2.9509	-10.3945	0.0050	0.9355	-4.9402	
39	0.01	-9.10	0.0607	-0.2749	3.0979	-10.5222	-0.0030	0.9442	-4.5301	
40	0.01	-9.87	0.0619	-0.3426	3.2029	-10.5542	0.0060	0.9503	-5.5357	
41	0.02	-10.68	0.0805	-0.3147	3.2267	-10.4246	0.0	0.9557	-3.9093	
42	0.01	-11.41	0.0702	-0.3182	3.3100	-10.3482	-0.0030	0.9376	-4.5339	
43	0.01	-12.18	0.0585	-0.2689	3.4428	-10.4363	-0.0140	0.9360	-4.5966	
44	0.01	-12.93	0.0555	-0.2907	3.4582	-10.2248	-0.0230	0.9184	-5.2378	
45	0.01	-13.74	0.0687	-0.2861	3.6171	-10.3523	-0.0240	0.9184	-4.1656	
46	0.01	-14.54	0.0586	-0.2790	3.6815	-10.3344	-0.0040	0.9222	-4.7618	

SSS

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSUNIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 118 1.05 1.7 0.0 B2WOF12 0.0 20 0 20 0 FIXED									
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	-15.39	0.0524	-0.2493	3.9139	-10.5268	-0.0130	0.9281	-4.7588
48	0.01	-16.18	0.0503	-0.2834	3.9782	-10.6558	-0.0230	0.9428	-5.6346
49	0.01	-16.98	0.0708	-0.3481	4.1294	-10.7635	-0.0220	0.9584	-4.9170
50	0.01	-17.85	0.0667	-0.3113	4.3282	-10.7749	-0.0170	0.9727	-4.6684
51	0.01	-18.61	0.0583	-0.2866	4.5666	-11.1446	-0.0140	0.9785	-4.9163
52	0.01	-19.49	0.0734	-0.3357	4.7227	-11.2681	-0.0260	1.0021	-4.5744
53	0.01	-20.18	0.0639	-0.3304	4.9649	-11.4142	-0.0570	0.9862	-5.1715

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		118		1.05		1.7	0.0	B2WOF14	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCFF1	YCFF1	CNF2	CH2	CB2	XCFF2	YCFF2		
1	0.02	19.50	-0.3259	-0.0164	-0.0703	0.0505	0.2157	0.0283	0.0002	0.0085	0.0071	0.3014		
2	0.02	19.52	-0.3217	-0.0158	-0.0726	0.0491	0.2257	0.0327	-0.0001	0.0125	-0.0031	0.3821		
3	0.02	19.20	-0.3048	-0.0160	-0.0704	0.0526	0.2309	0.0246	0.0005	0.0074	0.0224	0.3007		
4	0.02	18.45	-0.2925	-0.0156	-0.0618	0.0535	0.2112	0.0304	0.0008	0.0105	0.0263	0.3464		
5	0.03	17.66	-0.2632	-0.0147	-0.0523	0.0560	0.1987	0.0210	0.0004	0.0059	0.0214	0.2808		
6	0.04	16.85	-0.1979	-0.0143	-0.0334	0.0725	0.1690	0.0148	0.0006	0.0038	0.0439	0.2589		
7	0.03	16.05	-0.1659	-0.0139	-0.0205	0.0838	0.1234	0.0307	0.0005	0.0090	0.0179	0.2941		
8	0.02	15.31	-0.1243	-0.0133	-0.0044	0.1074	0.0355	0.0249	0.0005	0.0057	0.0201	0.2288		
9	0.03	14.53	-0.0754	-0.0122	0.0114	0.1618	-0.1509	0.0234	0.0002	0.0068	0.0085	0.2905		
10	0.02	13.76	-0.0277	-0.0123	0.0280	0.4440	-1.0097	0.0277	0.0001	0.0053	0.0036	0.1924		
11	0.02	12.97	0.0085	-0.0121	0.0478	-1.4292	5.6273	0.0260	0.0005	0.0068	0.0192	0.2601		
12	0.02	12.23	0.0533	-0.0120	0.0610	-0.2251	1.1456	0.0174	0.0004	0.0040	0.0259	0.2298		
13	0.03	11.45	0.1133	-0.0127	0.0811	-0.1125	0.7163	0.0155	0.0006	0.0007	0.0419	0.0429		
14	0.02	10.67	0.1600	-0.0135	0.0983	-0.0847	0.6145	0.0225	0.0003	0.0045	0.0133	0.1999		
15	0.02	9.83	0.2062	-0.0143	0.1174	-0.0693	0.5644	0.0115	0.0004	0.0011	0.0391	0.0984		
16	0.03	9.07	0.2552	-0.0149	0.1374	-0.0586	0.5405	0.0106	0.0008	-0.0011	0.0755	-0.1007		
17	0.02	8.28	0.2983	-0.0156	0.1556	-0.0523	0.5216	0.0045	0.0004	-0.0026	0.1000	-0.5779		
18	0.02	7.46	0.3473	-0.0161	0.1760	-0.0465	0.5068	0.0122	0.0007	0.0032	0.0574	0.2594		
19	0.02	6.70	0.3875	-0.0160	0.1922	-0.0413	0.4960	0.0078	0.0005	-0.0001	0.0705	-0.0129		
20	0.02	5.89	0.4519	-0.0167	0.2074	-0.0371	0.4589	0.0020	0.0009	-0.0035	0.4499	-1.7668		
21	0.02	5.07	0.5051	-0.0173	0.2258	-0.0343	0.4470	0.0045	0.0004	-0.0026	0.0889	-0.5779		
22	0.02	4.23	0.5682	-0.0185	0.2468	-0.0325	0.4309	0.0116	0.0002	0.0008	0.0172	0.0660		
23	0.02	3.49	0.6280	-0.0209	0.2604	-0.0333	0.4147	0.0021	0.0008	-0.0038	0.3809	-1.8096		
24	0.02	2.72	0.6869	-0.0230	0.2812	-0.0335	0.4093	0.0069	0.0007	-0.0019	0.1014	-0.2755		
25	0.02	1.96	0.7443	-0.0241	0.2959	-0.0324	0.3976	0.0031	0.0010	-0.0026	0.3386	-0.8281		
26	0.02	1.15	0.8008	-0.0256	0.3132	-0.0320	0.3911	0.0067	0.0005	-0.0010	0.0821	-0.1444		
27	0.02	0.44	0.8508	-0.0266	0.3295	-0.0313	0.3873	-0.0036	0.0008	-0.0033	-1.4164	5.4999		
28	0.02	-0.36	0.9057	-0.0263	0.3421	-0.0291	0.3777	-0.0077	0.0012	-0.0066	-0.1558	0.8527		
29	0.02	-1.16	0.9535	-0.0278	0.3537	-0.0292	0.3710	0.0030	0.0011	-0.0023	0.3666	-0.7668		
30	0.02	-1.96	1.0074	-0.0273	0.3696	-0.0271	0.3669	0.0044	0.0008	-0.0024	0.1931	-0.5531		
31	0.02	-2.74	1.0592	-0.0264	0.3814	-0.0250	0.3601	0.0002	0.0005	-0.0013	2.7495	-6.6668		
32	0.02	-3.61	1.1108	-0.0253	0.3939	-0.0228	0.3546	-0.0054	0.0011	-0.0053	-0.2037	0.9814		
33	0.01	-4.38	1.1550	-0.0246	0.3998	-0.0213	0.3461	-0.0006	0.0004	-0.0031	-0.7499	5.1665		
34	0.02	-5.14	1.2169	-0.0224	0.4136	-0.0184	0.3399	-0.0037	0.0011	-0.0070	-0.3108	1.9008		
35	0.01	-5.92	1.2598	-0.0206	0.4210	-0.0163	0.3342	-0.0006	0.0003	-0.0026	0.4999	-4.3335		
36	0.01	-6.69	1.2856	-0.0191	0.4279	-0.0149	0.3328	-0.0017	0.0007	-0.0042	-0.4111	2.4509		
37	0.02	-7.51	1.3248	-0.0147	0.4314	-0.0111	0.3257	0.0043	0.0004	-0.0019	0.1046	-0.4342		
38	0.01	-8.30	1.3452	-0.0083	0.4304	-0.0062	0.3200	-0.0005	0.0015	-0.0044	-3.0994	8.7332		
39	0.01	-9.10	1.3759	-0.0007	0.4253	-0.0005	0.3091	0.0003	0.0002	-0.0014	0.8332	-4.6668		
40	0.01	-9.87	1.3724	0.0060	0.4221	0.0044	0.3076	0.0038	0.0014	-0.0056	0.3684	-1.4826		
41	0.02	-10.68	1.3664	0.0090	0.4106	0.0066	0.3005	-0.0004	0.0023	-0.0049	-5.7490	12.3332		
42	0.01	-11.41	1.3563	0.0101	0.4063	0.0075	0.2996	-0.0019	0.0033	-0.0050	-1.7365	2.6490		
43	0.01	-12.18	1.3519	0.0126	0.4008	0.0093	0.2965	0.0117	0.0003	0.0002	0.0299	0.0170		
44	0.01	-12.93	1.2891	0.0113	0.3840	0.0088	0.2979	0.0082	0.0034	-0.0034	0.4146	-0.4107		
45	0.01	-13.74	1.3358	0.0121	0.3925	0.0091	0.2938	0.0125	0.0012	0.0021	0.1000	0.1652		
46	0.01	-14.54	1.3405	0.0113	0.3939	0.0084	0.2938	0.0032	0.0015	-0.0031	0.4843	-0.9793		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		118		1.05 1.7		0.0	B2WOF12	0.0	20	0	20	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.02	-15.39	1.3631	0.0088	0.3996	0.0065	0.2932	0.0080	-0.0010	0.0004	-0.1250	0.0457	
48	0.01	-16.18	1.3739	0.0079	0.4034	0.0057	0.2936	0.0086	0.0029	0.0008	0.3430	0.0890	
49	0.01	-16.98	1.3894	0.0072	0.4091	0.0052	0.2944	0.0183	0.0025	0.0052	0.1366	0.2840	
50	0.01	-17.85	1.4234	0.0089	0.4159	0.0063	0.2922	0.0124	-0.0034	0.0062	-0.2741	0.5026	
51	0.01	-18.61	1.4595	0.0085	0.4208	0.0059	0.2883	0.0176	-0.0012	0.0048	-0.0682	0.2707	
52	0.01	-19.49	1.4903	0.0098	0.4289	0.0066	0.2878	0.0166	-0.0016	0.0065	-0.1096	0.4428	
53	0.01	-20.18	1.4833	0.0089	0.4348	0.0060	0.2931	0.0310	-0.0006	0.0087	-0.0210	0.2816	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		1.18	1.05	1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	0.02	19.50	-0.2822	-0.0153	-0.0903	0.0544	0.3198	-0.0044	0.0027	0.0008	-0.6135	-0.1895
2	0.02	19.52	-0.2763	-0.0154	-0.0890	0.0557	0.3220	-0.0070	0.0043	0.0015	-0.6142	-0.2096
3	0.02	19.20	-0.2766	-0.0154	-0.0883	0.0556	0.3191	-0.0032	0.0019	0.0006	-0.6093	-0.1980
4	0.02	18.45	-0.2493	-0.0154	-0.0765	0.0620	0.3083	-0.0066	0.0040	0.0013	-0.6135	-0.1971
5	0.03	17.66	-0.2264	-0.0148	-0.0631	0.0656	0.2789	-0.0063	0.0039	0.0013	-0.6189	-0.2065
6	0.04	16.85	-0.2004	-0.0140	-0.0554	0.0701	0.2763	0.0133	-0.0082	-0.0029	-0.6164	-0.2157
7	0.03	16.05	-0.1577	-0.0132	-0.0350	0.0840	0.2222	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
8	0.02	15.31	-0.1118	-0.0130	-0.0152	0.1163	0.1355	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
9	0.03	14.53	-0.0669	-0.0125	0.0005	0.1868	-0.0076	0.0034	-0.0021	-0.0008	-0.6175	-0.2256
10	0.02	13.76	-0.0266	-0.0121	0.0181	0.4548	-0.6818	0.0071	-0.0044	-0.0015	-0.6196	-0.2161
11	0.02	12.97	0.0159	-0.0123	0.0370	-0.7734	2.3269	0.0057	-0.0035	-0.0012	-0.6139	-0.2106
12	0.02	12.23	0.0676	-0.0130	0.0567	-0.1930	0.8391	0.0072	-0.0044	-0.0016	-0.6110	-0.2223
13	0.03	11.45	0.1045	-0.0134	0.0800	-0.1262	0.7658	0.0069	-0.0042	-0.0015	-0.6158	-0.2175
14	0.02	10.67	0.1596	-0.0139	0.0992	-0.0871	0.6214	0.0091	-0.0056	-0.0020	-0.6153	-0.2162
15	0.02	9.83	0.2003	-0.0151	0.1207	-0.0754	0.6028	0.0077	-0.0047	-0.0017	-0.6103	-0.2252
16	0.03	9.07	0.2414	-0.0158	0.1413	-0.0656	0.5855	0.0063	-0.0038	-0.0014	-0.6110	-0.2223
17	0.02	8.28	0.2913	-0.0160	0.1586	-0.0549	0.5443	0.0065	-0.0040	-0.0014	-0.6153	-0.2206
18	0.02	7.46	0.3312	-0.0163	0.1819	-0.0493	0.5490	0.0077	-0.0047	-0.0017	-0.6103	-0.2252
19	0.02	6.70	0.3927	-0.0164	0.2021	-0.0419	0.5147	0.0081	-0.0049	-0.0018	-0.6110	-0.2223
20	0.02	5.89	0.4286	-0.0165	0.2216	-0.0386	0.5170	0.0067	-0.0041	-0.0015	-0.6193	-0.2190
21	0.02	5.07	0.4851	-0.0172	0.2405	-0.0355	0.4958	0.0050	-0.0030	-0.0011	-0.6099	-0.2268
22	0.02	4.23	0.5434	-0.0173	0.2614	-0.0318	0.4810	0.0046	-0.0028	-0.0010	-0.6195	-0.2103
23	0.02	3.49	0.5965	-0.0186	0.2787	-0.0312	0.4673	0.0040	-0.0025	-0.0009	-0.6249	-0.2168
24	0.02	2.72	0.6533	-0.0203	0.3017	-0.0311	0.4618	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
25	0.02	1.96	0.6929	-0.0210	0.3207	-0.0304	0.4628	0.0035	-0.0021	-0.0007	-0.6142	-0.2096
26	0.02	1.15	0.7550	-0.0211	0.3408	-0.0280	0.4515	0.0035	-0.0021	-0.0007	-0.6142	-0.2096
27	0.02	0.44	0.8010	-0.0218	0.3535	-0.0272	0.4413	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
28	0.02	-0.36	0.8485	-0.0216	0.3703	-0.0254	0.4364	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
29	0.02	-1.16	0.8431	-0.0213	0.3868	-0.0239	0.4331	0.0028	-0.0017	-0.0006	-0.6249	-0.2025
30	0.02	-1.96	0.9455	-0.0202	0.4011	-0.0214	0.4243	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
31	0.02	-2.74	1.0027	-0.0195	0.4124	-0.0194	0.4113	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
32	0.02	-3.61	1.0465	-0.0183	0.4245	-0.0175	0.4056	0.0032	-0.0020	-0.0007	-0.6249	-0.2293
33	0.01	-4.38	1.0956	-0.0163	0.4352	-0.0149	0.3972	0.0040	-0.0025	-0.0009	-0.6249	-0.2168
34	0.02	-5.14	1.1368	-0.0146	0.4476	-0.0129	0.3932	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
35	0.01	-5.92	1.1793	-0.0123	0.4560	-0.0104	0.3867	0.0032	-0.0020	-0.0007	-0.6249	-0.2293
36	0.01	-6.69	1.2168	-0.0097	0.4616	-0.0080	0.3796	0.0036	-0.0022	-0.0008	-0.6249	-0.2223
37	0.02	-7.51	1.2623	-0.0037	0.4634	-0.0030	0.3671	0.0023	-0.0014	-0.0005	-0.6086	-0.2320
38	0.01	-8.30	1.2870	-0.0009	0.4649	-0.0007	0.3613	0.0028	-0.0017	-0.0006	-0.6249	-0.2025
39	0.01	-9.10	1.3064	0.0081	0.4586	0.0062	0.3510	0.0019	-0.0011	-0.0004	-0.6052	-0.1931
40	0.01	-9.87	1.3122	0.0157	0.4516	0.0120	0.3444	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
41	0.02	-10.68	1.3042	0.0166	0.4432	0.0143	0.3398	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
42	0.01	-11.41	1.3062	0.0204	0.4373	0.0156	0.3348	0.0008	-0.0004	-0.0002	-0.5824	-0.2918
43	0.01	-12.18	1.2986	0.0226	0.4343	0.0174	0.3344	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
44	0.01	-12.93	1.2821	0.0231	0.4248	0.0181	0.3313	0.0019	-0.0012	-0.0004	-0.6315	-0.1931
45	0.01	-13.74	1.2682	0.0206	0.4191	0.0162	0.3303	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
46	0.01	-14.54	1.2866	0.0204	0.4261	0.0159	0.3312	0.0008	-0.0004	-0.0002	-0.5624	-0.2918

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 118 1.05 1.7			0.0	82WOF12	0.0	20	0	20	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-15.39	1.2985	0.0186	0.4297	0.0144	0.3309	0.0015	-0.0009	-0.0003	-0.6332	-0.2001
48	0.01	-16.18	1.3353	0.0210	0.4351	0.0158	0.3259	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
49	0.01	-16.98	1.3488	0.0214	0.4419	0.0159	0.3277	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
50	0.01	-17.85	1.3635	0.0197	0.4456	0.0144	0.3268	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
51	0.01	-18.61	1.4023	0.0212	0.4544	0.0151	0.3240	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
52	0.01	-19.49	1.4383	0.0208	0.4649	0.0145	0.3232	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
53	0.01	-20.18	1.4657	0.0199	0.4797	0.0136	0.3273	0.0014	-0.0009	-0.0003	-0.6427	-0.2382

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			119	1.10	1.7	0.0	B2HOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	0.03	19.42	0.0146	0.0516	-2.3223	0.0526	-0.0130	0.1289	3.5315				
2	0.03	19.55	0.0096	0.0286	-2.2091	-0.2248	-0.0110	0.1597	2.9750				
3	0.03	19.17	-0.0317	0.1354	-2.3983	-0.1379	-0.0070	0.1253	-4.2707				
4	0.03	18.50	0.0060	0.0626	-2.1408	-0.2994	-0.0050	0.1594	10.4333				
5	0.04	17.59	-0.0791	0.3407	-1.9418	-0.4740	0.0050	0.1834	-4.3077				
6	0.03	16.63	0.0190	0.0344	-1.6548	-0.8019	-0.0100	0.2238	1.8105				
7	0.03	16.00	0.0396	-0.0684	-1.6556	-0.8012	-0.0120	0.2186	-1.7283				
8	0.02	15.24	-0.0024	-0.0006	-1.3092	-1.1187	-0.0070	0.2575	0.2667				
9	0.02	14.50	-0.0372	0.0931	-1.0999	-1.3638	0.0020	0.3027	-2.5021				
10	0.03	13.68	0.0011	0.0725	-1.0476	-1.5100	0.0	0.3075	65.8727				
11	0.03	12.92	0.0086	0.0250	-0.9871	-1.6007	0.0010	0.3213	2.9023				
12	0.03	12.18	0.0036	0.0360	-0.7554	-1.9190	0.0010	0.3483	9.9689				
13	0.03	11.44	-0.0062	0.0627	-0.5185	-2.2197	0.0030	0.3790	-10.1097				
14	0.03	10.61	0.0381	-0.0163	-0.4662	-2.4209	0.0010	0.3952	-0.4289				
15	0.02	9.83	0.0158	-0.0801	-0.2517	-2.7733	0.0010	0.4224	-5.0709				
16	0.03	9.06	0.0118	0.0005	-0.1869	-2.9400	0.0060	0.4305	0.0407				
17	0.03	8.22	0.0128	-0.0019	-0.0283	-3.2590	0.0090	0.4636	-0.1500				
18	0.02	7.45	0.0245	-0.0743	0.2773	-3.8037	0.0100	0.5051	-3.0326				
19	0.03	6.65	0.0346	-0.0704	0.3880	-4.0848	0.0110	0.5203	-2.0358				
20	0.02	5.84	0.0328	-0.0689	0.4478	-4.3225	0.0100	0.5496	-2.1012				
21	0.02	5.07	0.0417	-0.1104	0.6841	-4.6523	0.0390	0.5715	-2.6470				
22	0.02	4.23	0.0333	-0.0826	0.7699	-4.9354	0.0130	0.5908	-2.4811				
23	0.02	3.49	0.0068	-0.0375	0.9004	-5.2690	0.0140	0.6224	-5.5176				
24	0.03	2.73	0.0408	-0.1101	1.1016	-5.7156	0.0100	0.6473	-2.6990				
25	0.02	1.96	0.0395	-0.1253	1.1898	-6.0372	0.0070	0.6751	-3.1721				
26	0.02	1.14	0.0544	-0.1641	1.2762	-6.3711	0.0080	0.7006	-3.0176				
27	0.02	0.40	0.0504	-0.1475	1.4679	-6.7145	0.0110	0.7114	-2.9278				
28	0.02	-0.31	0.0450	-0.1510	1.5975	-7.0859	0.0110	0.7361	-3.3556				
29	0.02	-1.17	0.0456	-0.1568	1.7506	-7.4611	0.0090	0.7698	-3.4395				
30	0.02	-1.90	0.0327	-0.1328	1.8217	-7.7086	0.0110	0.7926	-4.0605				
31	0.02	-2.74	0.0446	-0.1444	1.9593	-8.0554	0.0100	0.8163	-3.2386				
32	0.02	-3.57	0.0301	-0.1341	2.0685	-8.3332	0.0130	0.8449	-4.4565				
33	0.02	-4.35	0.0259	-0.1262	2.2448	-8.6600	0.0150	0.8566	-4.8749				
34	0.02	-5.10	0.0335	-0.1419	2.3990	-9.0508	0.0080	0.8880	-4.2358				
35	0.02	-5.85	0.0378	-0.1389	2.5557	-9.2822	0.0080	0.8929	-3.6751				
36	0.02	-6.68	0.0396	-0.1744	2.5621	-9.4691	0.0120	0.9158	-4.4050				
37	0.02	-7.49	0.0587	-0.2012	2.8185	-9.8422	0.0080	0.9253	-3.4273				
38	0.02	-8.33	0.0251	-0.1591	2.8556	-9.9701	0.0130	0.9472	-6.3402				
39	0.02	-8.99	0.0519	-0.1856	3.1074	-10.2276	0.0050	0.9505	-3.5773				
40	0.02	-9.85	0.0464	-0.1829	3.0643	-10.3072	0.0110	0.9824	-3.9431				
41	0.02	-10.65	0.0356	-0.1568	3.2770	-10.6230	-0.0030	0.9780	-4.4056				
42	0.02	-11.34	0.0609	-0.1872	3.3125	-10.6347	0.0030	0.9770	-3.0749				
43	0.02	-12.20	0.0716	-0.2062	3.3884	-10.5909	0.0030	0.9784	-2.8804				
44	0.02	-12.82	0.0384	-0.1877	3.5650	-10.6593	-0.0140	0.9722	-4.6896				
45	0.02	-13.67	0.0252	-0.1593	3.6923	-10.7385	-0.0100	1.0020	-6.3206				
46	0.02	-14.52	0.0419	-0.1546	3.7938	-10.7176	-0.0070	0.9968	-3.6912				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 119 1.10 1.7 0.0 B2WOF12 0.0 20 0 20 0 FIXED										
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	0.02	-15.33	0.0448	-0.1957	3.7933	-10.7469	-0.0190	1.0019	-4.3687	
48	0.02	-16.02	0.0524	-0.2113	4.0295	-10.7766	-0.0160	1.0111	-4.0336	
49	0.02	-16.92	0.0324	-0.1293	4.1807	-10.8973	-0.0110	1.0023	-3.9926	
50	0.01	-17.76	0.0319	-0.2096	4.3178	-10.8513	-0.0130	0.9995	-6.5724	
51	0.01	-18.70	0.0639	-0.2754	4.5274	-11.0338	-0.0280	1.0000	-4.3108	
52	0.01	-19.47	0.0471	-0.2999	4.8234	-11.1511	-0.0360	1.0079	-6.3682	
53	0.02	-20.18	0.0839	-0.2554	5.1039	-11.3150	-0.0440	1.0115	-3.0448	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION	
6		119		1.10		1.7	0.0	B2WOF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	0.03	19.42	-0.3394	-0.0141	-0.0685	0.0415	0.2018	0.0306	-0.0010	0.0009	-0.0327	0.0293		
2	0.03	19.55	-0.3256	-0.0145	-0.0665	0.0447	0.2055	0.0305	-0.0006	0.0010	-0.0197	0.0316		
3	0.03	19.17	-0.3317	-0.0141	-0.0691	0.0425	0.2084	0.0222	-0.0011	-0.0016	-0.0495	-0.0722		
4	0.03	18.50	-0.3042	-0.0139	-0.0575	0.0458	0.1889	0.0293	-0.0010	0.0009	-0.0341	0.0295		
5	0.04	17.59	-0.2542	-0.0150	-0.0438	0.0592	0.1723	0.0177	-0.0005	-0.0042	-0.0282	-0.2374		
6	0.03	16.83	-0.2197	-0.0136	-0.0298	0.0621	0.1357	0.0354	-0.0010	0.0026	-0.0297	0.0733		
7	0.03	16.00	-0.1848	-0.0131	-0.0196	0.0711	0.1059	0.0363	-0.0010	0.0039	-0.0275	0.1073		
8	0.02	15.24	-0.1389	-0.0132	0.0008	0.0954	-0.0059	0.0317	-0.0004	0.0016	-0.0142	0.0493		
9	0.02	14.50	-0.0940	-0.0117	0.0129	0.1244	-0.1370	0.0175	-0.0006	-0.0033	-0.0371	-0.1868		
10	0.03	13.68	-0.0418	-0.0131	0.0313	0.3145	-0.7481	0.0294	-0.0009	0.0008	-0.0323	0.0271		
11	0.03	12.92	-0.0023	-0.0123	0.0476	5.3686	-20.7103	0.0295	-0.0013	0.0001	-0.0441	0.0044		
12	0.03	12.18	0.0507	-0.0126	0.0624	-0.2485	1.2306	0.0286	-0.0013	-0.0013	-0.0472	-0.0444		
13	0.03	11.44	0.0795	-0.0127	0.0795	-0.1597	1.0049	0.0248	-0.0011	-0.0016	-0.0464	-0.0660		
14	0.03	10.61	0.1382	-0.0134	0.0975	-0.0973	0.7059	0.0244	-0.0002	-0.0008	-0.0102	-0.0315		
15	0.02	9.83	0.1968	-0.0144	0.1146	-0.0734	0.5822	0.0239	-0.0003	-0.0039	-0.0146	-0.1647		
16	0.03	9.06	0.2263	-0.0149	0.1290	-0.0661	0.5701	0.0082	-0.0002	-0.0076	-0.0244	-0.9229		
17	0.03	8.22	0.2699	-0.0152	0.1532	-0.0565	0.5677	0.0135	-0.0003	-0.0082	-0.0222	-0.6075		
18	0.02	7.45	0.3338	-0.0160	0.1748	-0.0479	0.5237	0.0237	0.0003	-0.0038	0.0127	-0.1605		
19	0.03	6.65	0.3668	-0.0161	0.1883	-0.0440	0.5134	0.0164	-0.0002	-0.0048	-0.0122	-0.2948		
20	0.02	5.84	0.4089	-0.0163	0.2054	-0.0398	0.5024	0.0090	0.0	-0.0056	0.0	-0.6223		
21	0.02	5.07	0.4672	-0.0168	0.2196	-0.0359	0.4700	0.0138	-0.0001	-0.0047	-0.0072	-0.3407		
22	0.02	4.23	0.5164	-0.0172	0.2342	-0.0334	0.4534	0.0055	0.0004	-0.0074	0.0818	-1.3395		
23	0.02	3.49	0.5677	-0.0175	0.2538	-0.0309	0.4470	-0.0009	0.0003	-0.0121	-0.3888	13.4443		
24	0.03	2.73	0.6435	-0.0210	0.2758	-0.0327	0.4286	0.0127	0.0002	-0.0057	0.0197	-0.4463		
25	0.02	1.96	0.6895	-0.0227	0.2876	-0.0330	0.4172	0.0127	0.0002	-0.0057	0.0197	-0.4463		
26	0.02	1.14	0.7338	-0.0247	0.3055	-0.0336	0.4163	0.0089	0.0002	-0.0055	0.0281	-0.6218		
27	0.02	0.40	0.7863	-0.0259	0.3191	-0.0329	0.4058	0.0089	0.0002	-0.0055	0.0225	-0.6218		
28	0.02	-0.31	0.8322	-0.0259	0.3314	-0.0312	0.3982	0.0013	0.0007	-0.0111	0.5384	-8.5129		
29	0.02	-1.17	0.9009	-0.0275	0.3460	-0.0306	0.3840	0.0049	0.0009	-0.0102	0.1836	-2.0749		
30	0.02	-1.90	0.9469	-0.0277	0.3617	-0.0292	0.3820	0.0006	0.0005	-0.0079	0.9165	-13.1668		
31	0.02	-2.74	0.9968	-0.0277	0.3704	-0.0278	0.3716	0.0012	0.0013	-0.0110	1.0831	-9.1668		
32	0.02	-3.57	1.0523	-0.0270	0.3819	-0.0257	0.3630	-0.0026	0.0014	-0.0108	-0.5576	4.1409		
33	0.02	-4.35	1.1005	-0.0252	0.3890	-0.0229	0.3535	-0.0072	0.0017	-0.0131	-0.2361	1.8193		
34	0.02	-5.10	1.1563	-0.0244	0.4039	-0.0211	0.3493	0.0047	0.0007	-0.0092	0.1595	-1.9647		
35	0.02	-5.85	1.1873	-0.0230	0.4128	-0.0194	0.3477	0.0012	0.0008	-0.0104	0.6665	-8.6668		
36	0.02	-6.68	1.2324	-0.0213	0.4190	-0.0173	0.3400	-0.0024	0.0017	-0.0121	-0.7082	5.0415		
37	0.02	-7.49	1.2670	-0.0201	0.4270	-0.0159	0.3370	0.0045	-0.0001	-0.0080	-0.0222	-1.7779		
38	0.02	-8.33	1.3074	-0.0196	0.4303	-0.0120	0.3292	-0.0019	0.0015	-0.0137	-0.8156	7.2279		
39	0.02	-8.99	1.3393	-0.0160	0.4330	-0.0119	0.3233	0.0012	0.0005	-0.0102	0.4583	-8.5001		
40	0.02	-9.85	1.3584	-0.0145	0.4387	-0.0107	0.3230	0.0015	0.0013	-0.0121	0.8665	-8.0668		
41	0.02	-10.65	1.3895	-0.0074	0.4442	-0.0054	0.3125	0.0060	0.0010	-0.0096	0.1666	-1.6001		
42	0.02	-11.34	1.3850	-0.0038	0.4341	-0.0027	0.3134	0.0049	-0.0004	-0.0095	-0.0918	-1.9321		
43	0.02	-12.20	1.3833	0.0031	0.4284	0.0023	0.3097	0.0020	0.0000	-0.0083	0.0250	-0.1668		
44	0.02	-12.82	1.3883	0.0061	0.4221	0.0044	0.3040	0.0133	0.0014	-0.0036	0.1052	-0.2683		
45	0.02	-13.67	1.4075	0.0071	0.4291	0.0051	0.3049	0.0125	0.0015	-0.0054	0.1240	-0.4348		
46	0.02	-14.52	1.4145	0.0085	0.4236	0.0060	0.2994	0.0096	0.0015	-0.0040	0.1562	-0.4168		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 119 1.10 1.7 0.0 82W0F12 0.0 20 0 20 0 FIXED...												
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	-15.33	1.4063	0.0085	0.4233	0.0060	0.3010	0.0127	0.0019	-0.0014	0.1535	-0.1077
48	0.02	-16.02	1.4037	0.0096	0.4206	0.0069	0.2996	0.0048	0.0096	-0.0099	2.0101	-2.0626
49	0.02	-16.92	1.4267	0.0084	0.4276	0.0059	0.2997	0.0085	0.0011	-0.0044	0.1353	-0.5138
50	0.01	-17.76	1.4461	0.0083	0.4342	0.0057	0.3002	0.0143	-0.0004	-0.0010	-0.0315	-0.0724
51	0.01	-18.70	1.4605	0.0079	0.4382	0.0054	0.3000	0.0158	-0.0008	0.0038	-0.0506	0.2383
52	0.01	-19.47	1.4908	0.0063	0.4486	0.0043	0.3009	0.0392	-0.0003	0.0125	-0.0077	0.3179
53	0.02	-20.18	1.5006	0.0049	0.4521	0.0033	0.3013	0.0400	0.0013	0.0136	0.0325	0.3407

PAGE 3 OF 3

SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		119	1.10	1.7	0.0	B2WCF12	0.0	20	0	20	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	0.03	19.42	-0.2548	-0.0134	-0.0928	0.0526	0.3642	0.0	0.0	0.0	0.0	0.0
2	0.03	19.55	-0.2384	-0.0127	-0.0920	0.0535	0.3861	-0.0013	0.0008	0.0003	-0.6153	-0.2052
3	0.03	19.17	-0.2366	-0.0133	-0.0897	0.0562	0.3793	-0.0034	0.0020	0.0007	-0.6028	-0.1962
4	0.03	18.50	-0.2234	-0.0133	-0.0845	0.0597	0.3784	0.0039	-0.0024	-0.0008	-0.6153	-0.2052
5	0.04	17.59	-0.2032	-0.0125	-0.0743	0.0615	0.3657	0.0131	-0.0040	-0.0028	-0.6144	-0.2164
6	0.03	16.83	-0.1598	-0.0123	-0.0522	0.0773	0.3270	0.0067	-0.0041	-0.0015	-0.6118	-0.2190
7	0.03	16.00	-0.1083	-0.0119	-0.0337	0.1103	0.3111	-0.0041	0.0025	0.0008	-0.6096	-0.2034
8	0.02	15.24	-0.0707	-0.0119	-0.0197	0.1690	0.2781	0.0007	-0.0034	-0.0002	-0.6427	-0.2382
9	0.02	14.50	-0.0278	-0.0115	-0.0032	0.4136	0.1138	0.0056	-0.0034	-0.0012	-0.6160	-0.2204
10	0.03	13.68	0.0053	-0.0114	0.0129	-2.1600	2.4276	0.0088	-0.0054	-0.0019	-0.6192	-0.2122
11	0.03	12.92	0.0402	-0.0115	0.0312	-0.2873	0.7760	0.0095	-0.0058	-0.0020	-0.6157	-0.2142
12	0.03	12.18	0.0881	-0.0122	0.0467	-0.1385	0.5534	0.0078	-0.0048	-0.0017	-0.6153	-0.2181
13	0.03	11.44	0.1339	-0.0127	0.0703	-0.0948	0.5251	0.0092	-0.0056	-0.0020	-0.6140	-0.2211
14	0.03	10.61	0.1776	-0.0131	0.0902	-0.0740	0.5078	0.0104	-0.0064	-0.0022	-0.6153	-0.2149
15	0.02	9.83	0.2172	-0.0140	0.1110	-0.0647	0.5109	0.0084	-0.0051	-0.0018	-0.6130	-0.2144
16	0.03	9.06	0.2619	-0.0155	0.1282	-0.0594	0.4898	0.0086	-0.0053	-0.0018	-0.6162	-0.2133
17	0.03	8.22	0.3043	-0.0157	0.1507	-0.0517	0.4952	0.0089	-0.0055	-0.0019	-0.6179	-0.2173
18	0.02	7.45	0.3575	-0.0159	0.1706	-0.0445	0.4772	0.0099	-0.0060	-0.0022	-0.6110	-0.2223
19	0.03	6.65	0.4014	-0.0161	0.1904	-0.0402	0.4742	0.0101	-0.0062	-0.0022	-0.6138	-0.2212
20	0.02	5.84	0.4496	-0.0159	0.2084	-0.0354	0.4635	0.0072	-0.0044	-0.0016	-0.6179	-0.2223
21	0.02	5.07	0.4783	-0.0162	0.2261	-0.0340	0.4726	0.0063	-0.0039	-0.0014	-0.6189	-0.2223
22	0.02	4.23	0.5409	-0.0163	0.2405	-0.0301	0.4447	0.0055	-0.0034	-0.0012	-0.6181	-0.2122
23	0.02	3.49	0.5867	-0.0170	0.2631	-0.0290	0.4484	0.0043	-0.0026	-0.0010	-0.6045	-0.2249
24	0.03	2.73	0.6398	-0.0170	0.2843	-0.0266	0.4443	0.0027	-0.0017	-0.0006	-0.6295	-0.2223
25	0.02	1.96	0.6993	-0.0185	0.3040	-0.0265	0.4347	0.0034	-0.0020	-0.0008	-0.6028	-0.2256
26	0.02	1.14	0.7452	-0.0193	0.3196	-0.0259	0.4289	0.0033	-0.0020	-0.0007	-0.6211	-0.2122
27	0.02	0.40	0.7922	-0.0209	0.3328	-0.0264	0.4202	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
28	0.02	-0.31	0.8281	-0.0215	0.3488	-0.0260	0.4212	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
29	0.02	-1.17	0.8829	-0.0213	0.3673	-0.0241	0.4160	0.0035	-0.0021	-0.0007	-0.6142	-0.2096
30	0.02	-1.90	0.9384	-0.0200	0.3797	-0.0213	0.4046	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
31	0.02	-2.74	0.9762	-0.0200	0.3916	-0.0205	0.4011	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
32	0.02	-3.57	1.0337	-0.0183	0.4028	-0.0177	0.3897	0.0024	-0.0015	-0.0005	-0.6249	-0.2065
33	0.02	-4.35	1.0671	-0.0177	0.4133	-0.0166	0.3873	0.0031	-0.0019	-0.0007	-0.6128	-0.2152
34	0.02	-5.10	1.1220	-0.0151	0.4266	-0.0135	0.3802	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
35	0.02	-5.85	1.1621	-0.0141	0.4367	-0.0121	0.3758	0.0028	-0.0017	-0.0006	-0.6070	-0.2025
36	0.02	-6.68	1.1969	-0.0125	0.4450	-0.0104	0.3718	0.0036	-0.0022	-0.0008	-0.6110	-0.2223
37	0.02	-7.49	1.2544	-0.0083	0.4476	-0.0066	0.3568	0.0030	-0.0018	-0.0006	-0.6166	-0.2001
38	0.02	-8.33	1.2819	-0.0067	0.4519	-0.0052	0.3526	0.0033	-0.0020	-0.0007	-0.6211	-0.2122
39	0.02	-8.99	1.3136	-0.0053	0.4592	-0.0040	0.3496	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
40	0.02	-9.85	1.3253	-0.0035	0.4635	-0.0027	0.3447	0.0034	-0.0020	-0.0008	-0.6028	-0.2256
41	0.02	-10.65	1.3500	0.0010	0.4655	0.0007	0.3448	0.0017	-0.0010	-0.0003	-0.6175	-0.1962
42	0.02	-11.34	1.3540	0.0081	0.4578	0.0060	0.3381	0.0018	-0.0011	-0.0004	-0.6388	-0.2223
43	0.02	-12.20	1.3593	0.0137	0.4532	0.0101	0.3334	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
44	0.02	-12.82	1.3751	0.0150	0.4522	0.0109	0.3289	0.0027	-0.0017	-0.0006	-0.6295	-0.2223
45	0.02	-13.67	1.3919	0.0176	0.4442	0.0126	0.3263	0.0025	-0.0015	-0.0006	-0.6199	-0.2268
46	0.02	-14.52	1.3805	0.0191	0.4486	0.0138	0.3250	0.0018	-0.0011	-0.0004	-0.6388	-0.2223

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 119 1.10 1.7 0.0 B2WOF12 0.0 20 0 20 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-15.33	1.3821	0.0193	0.4492	0.0140	0.3250	0.0019	-0.0011	-0.0004	-0.6052	-0.1931
48	0.02	-16.02	1.4200	0.0183	0.4552	0.0129	0.3205	0.0024	-0.0015	-0.0005	-0.6249	-0.2085
49	0.02	-16.92	1.4092	0.0194	0.4498	0.0138	0.3192	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
50	0.01	-17.76	1.4291	0.0202	0.4517	0.0141	0.3161	0.0020	-0.0012	-0.0004	-0.6249	-0.2168
51	0.01	-18.70	1.4394	0.0180	0.4601	0.0125	0.3197	0.0026	-0.0016	-0.0005	-0.6153	-0.2052
52	0.01	-19.47	1.4776	0.0165	0.4740	0.0112	0.3208	0.0019	-0.0011	-0.0005	-0.6052	-0.2457
53	0.02	-20.18	1.5050	0.0133	0.4845	0.0088	0.3219	0.0024	-0.0015	-0.0005	-0.6249	-0.2085

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 120 0.85 1.7				0.0	82WOF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.86	-0.0495	0.1843	-2.8915	4.4751	0.0040	-0.1160	-3.7232		
2	0.02	19.59	0.0036	0.0759	-2.8841	4.4357	-0.0070	-0.1056	21.1000		
3	0.02	18.86	-0.0237	0.1022	-2.8021	4.2749	-0.0050	-0.1110	-4.3114		
4	0.02	18.05	-0.0316	0.1382	-2.6943	3.9911	-0.0010	-0.0969	-4.3747		
5	0.02	17.21	-0.0036	0.1150	-2.4862	3.6246	-0.0040	-0.0782	-31.9555		
6	0.02	16.39	0.0090	0.0444	-2.3463	3.2978	-0.0110	-0.0685	-4.9333		
7	0.02	15.62	-0.0213	0.1348	-2.1600	2.9840	-0.0030	-0.0520	-6.3296		
8	0.02	14.85	-0.0130	0.0832	-1.9442	2.6460	0.0060	-0.0370	-6.4000		
9	0.02	14.08	-0.0153	0.0764	-1.7540	2.2406	0.0010	-0.0160	-4.9948		
10	0.02	13.26	-0.0070	0.0988	-1.5720	1.8648	0.0040	0.0001	-14.1143		
11	0.01	12.54	-0.0069	0.0067	-1.3748	1.5148	0.0150	0.0190	-0.9652		
12	0.01	11.74	-0.0089	0.0395	-1.1946	1.1466	0.0080	0.0365	-4.4337		
13	0.01	10.96	0.0027	0.0042	-1.0337	0.8202	0.0080	0.0517	1.5630		
14	0.01	10.14	0.0158	-0.0371	-0.9183	0.4407	0.0110	0.0655	-2.3494		
15	0.01	9.36	0.0059	0.0127	-0.7655	0.1728	0.0140	0.0785	2.1593		
16	0.01	8.53	0.0043	-0.0070	-0.6324	-0.0985	0.0130	0.0913	-1.6326		
17	0.01	7.75	0.0198	-0.0717	-0.4801	-0.4067	0.0110	0.1062	-3.6222		
18	0.01	6.98	0.0295	-0.0743	-0.3826	-0.7041	0.0120	0.1124	-2.5186		
19	0.01	6.16	0.0123	-0.0442	-0.2191	-0.9771	0.0130	0.1211	-3.5951		
20	0.01	5.36	0.0347	-0.0726	-0.1338	-1.2265	0.0110	0.1301	-2.0916		
21	0.01	4.52	0.0249	-0.0818	0.0304	-1.6113	0.0100	0.1480	-3.2875		
22	0.01	3.76	0.0270	-0.0558	0.1658	-1.8799	0.0130	0.1618	-2.0667		
23	0.01	3.00	0.0316	-0.0832	0.2887	-2.2799	0.0100	0.1848	-2.6342		
24	0.01	2.24	0.0279	-0.0880	0.4235	-2.5727	0.0110	0.1987	-3.1563		
25	0.01	1.47	0.0273	-0.0772	0.5938	-3.0231	0.0130	0.2170	-2.8286		
26	0.01	0.69	0.0278	-0.1149	0.7170	-3.3795	0.0120	0.2327	-4.1338		
27	0.01	-0.03	0.0246	-0.0734	0.9237	-3.8168	0.0110	0.2484	-2.9854		
28	0.01	-0.86	0.0321	-0.0799	1.0271	-4.1825	0.0100	0.2630	-2.4903		
29	0.01	-1.65	0.0432	-0.1265	1.1425	-4.5362	0.0100	0.2742	-2.9278		
30	0.01	-2.46	0.0285	-0.0939	1.2810	-4.9010	0.0110	0.2855	-3.2947		
31	0.01	-3.28	0.0469	-0.1386	1.4458	-5.2967	0.0100	0.2955	-2.9565		
32	0.01	-4.10	0.0319	-0.1126	1.6207	-5.7595	0.0130	0.3115	-3.5317		
33	0.01	-4.86	0.0398	-0.1427	1.7154	-6.0680	0.0100	0.3250	-3.5859		
34	0.01	-5.64	0.0405	-0.1047	1.8564	-6.3884	0.0090	0.3381	-2.5852		
35	0.01	-6.41	0.0307	-0.1100	1.9882	-6.7590	0.0100	0.3500	-3.5824		
36	0.01	-7.21	0.0457	-0.1420	2.1442	-7.1314	0.0080	0.3616	-3.1068		
37	0.01	-8.02	0.0552	-0.1713	2.3363	-7.5682	0.0130	0.3662	-3.1029		
38	0.01	-8.79	0.0466	-0.1642	2.4752	-7.8907	0.0100	0.3813	-3.5245		
39	0.01	-9.61	0.0266	-0.1002	2.5940	-8.1300	-0.0010	0.3949	-3.7684		
40	0.01	-10.36	0.0477	-0.1298	2.6305	-7.9001	0.0140	0.4077	-2.7208		
41	0.01	-11.11	0.0533	-0.1586	2.7569	-8.1511	0.0160	0.4278	-2.9760		
42	0.01	-11.89	0.0613	-0.1708	2.9504	-8.5010	0.0170	0.4362	-2.7866		
43	0.01	-12.69	0.0581	-0.1513	3.0446	-8.7529	0.0120	0.4526	-2.6048		
44	0.02	-13.42	0.0492	-0.0459	3.2040	-8.7230	0.0090	0.4660	-0.9325		
45	0.02	-14.30	0.0576	-0.0376	3.2050	-8.5304	-0.0020	0.4722	-0.6535		
46	0.02	-15.10	0.0155	0.0963	3.2464	-8.2804	-0.0360	0.4812	6.2129		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		120	0.85	1.7	0.0	82WUF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP			
47	0.02	-15.94	-0.0009	0.1182	3.2674	-8.1758	-0.0250	0.4789	-131.3999			
48	0.02	-16.73	0.0089	0.0935	3.4486	-8.1717	-0.0250	0.4783	10.5101			
49	0.02	-17.59	0.0144	0.0658	3.4695	-8.1559	-0.0250	0.4796	4.5722			
50	0.02	-18.44	0.0502	-0.0793	3.6580	-8.3658	-0.0070	0.4541	-1.5793			
51	0.01	-19.31	0.0032	-0.0825	3.7822	-8.5637	-0.0090	0.4546	-25.7750			
52	0.01	-20.07	-0.0080	0.0072	3.9474	-8.7269	-0.0300	0.4462	-0.9000			

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	120	0.85	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.02	19.86	-0.8571	-0.0379	-0.2247	0.0443	0.2622	0.0401	0.0011	0.0030	0.0287	0.0739
2	0.02	19.59	-0.8355	-0.0379	-0.2251	0.0453	0.2694	0.0468	0.0010	0.0028	0.0224	0.0597
3	0.02	18.86	-0.8182	-0.0369	-0.2190	0.0451	0.2677	0.0468	0.0010	0.0028	0.0224	0.0597
4	0.02	18.05	-0.7832	-0.0361	-0.2074	0.0461	0.2648	0.0354	0.0011	0.0004	0.0311	0.0112
5	0.02	17.21	-0.7357	-0.0349	-0.1944	0.0475	0.2643	0.0466	0.0014	0.0028	0.0300	0.0607
6	0.02	16.39	-0.6793	-0.0323	-0.1827	0.0475	0.2689	0.0433	0.0011	0.0025	0.0254	0.0584
7	0.02	15.62	-0.6138	-0.0300	-0.1702	0.0489	0.2773	0.0420	0.0012	0.0006	0.0298	0.0142
8	0.02	14.85	-0.5541	-0.0269	-0.1533	0.0485	0.2767	0.0439	0.0012	-0.0003	0.0273	-0.0062
9	0.02	14.08	-0.4952	-0.0260	-0.1365	0.0525	0.2757	0.0458	0.0020	-0.0015	0.0448	-0.0336
10	0.02	13.26	-0.4449	-0.0244	-0.1185	0.0548	0.2662	0.0331	0.0013	-0.0048	0.0393	-0.1441
11	0.01	12.54	-0.3865	-0.0217	-0.0992	0.0561	0.2566	0.0331	0.0014	-0.0047	0.0438	-0.1411
12	0.01	11.74	-0.3329	-0.0212	-0.0820	0.0637	0.2464	0.0380	0.0015	-0.0034	0.0408	-0.0905
13	0.01	10.96	-0.2868	-0.0185	-0.0643	0.0645	0.2241	0.0325	0.0012	-0.0017	0.0369	-0.0514
14	0.01	10.14	-0.2278	-0.0155	-0.0440	0.0680	0.1932	0.0325	0.0014	-0.0017	0.0446	-0.0514
15	0.01	9.36	-0.1898	-0.0147	-0.0324	0.0777	0.1709	0.0283	0.0013	-0.0055	0.0459	-0.1933
16	0.01	8.53	-0.1347	-0.0128	-0.0166	0.0954	0.1231	0.0246	0.0013	-0.0041	0.0528	-0.1668
17	0.01	7.75	-0.0935	-0.0107	0.0017	0.1150	-0.0187	0.0340	0.0015	-0.0006	0.0456	-0.0168
18	0.01	6.98	-0.0509	-0.0093	0.0135	0.1837	-0.2660	0.0229	0.0012	-0.0036	0.0524	-0.1559
19	0.01	6.16	-0.0108	-0.0082	0.0331	0.7638	-3.0649	0.0232	0.0016	-0.0051	0.0711	-0.2185
20	0.01	5.36	0.0220	-0.0077	0.0462	-0.3499	2.1014	0.0215	0.0014	-0.0046	0.0651	-0.2156
21	0.01	4.52	0.0844	-0.0074	0.0663	-0.0877	0.7858	0.0230	0.0015	-0.0039	0.0652	-0.1711
22	0.01	3.76	0.1292	-0.0068	0.0843	-0.0526	0.6529	0.0198	0.0011	-0.0048	0.0555	-0.2425
23	0.01	3.00	0.1912	-0.0058	0.1071	-0.0306	0.5602	0.0232	0.0013	-0.0049	0.0582	-0.2099
24	0.01	2.24	0.2321	-0.0048	0.1223	-0.0209	0.5271	0.0218	0.0012	-0.0059	0.0550	-0.2723
25	0.01	1.47	0.3117	-0.0029	0.1452	-0.0095	0.4657	0.0187	0.0013	-0.0074	0.0695	-0.3941
26	0.01	0.69	0.3597	-0.0029	0.1650	-0.0081	0.4586	0.0166	0.0010	-0.0057	0.0602	-0.3415
27	0.01	-0.03	0.4423	-0.0021	0.1867	-0.0047	0.4220	0.0151	0.0011	-0.0070	0.0761	-0.4615
28	0.01	-0.86	0.4852	-0.0018	0.2069	-0.0037	0.4264	0.0166	0.0010	-0.0063	0.0602	-0.3776
29	0.01	-1.65	0.5415	-0.0000	0.2209	-0.0001	0.4080	0.0100	0.0010	-0.0068	0.1050	-0.6768
30	0.01	-2.46	0.6043	0.0026	0.2409	0.0044	0.3986	0.0134	0.0009	-0.0068	0.0709	-0.5101
31	0.01	-3.28	0.6501	0.0046	0.2555	0.0071	0.3930	0.0089	0.0011	-0.0093	0.1292	-1.0488
32	0.01	-4.10	0.7322	0.0082	0.2708	0.0112	0.3698	0.0100	0.0010	-0.0068	0.1000	-0.6768
33	0.01	-4.86	0.7749	0.0112	0.2863	0.0144	0.3695	0.0087	0.0009	-0.0084	0.1092	-0.9656
34	0.01	-5.64	0.8243	0.0141	0.2990	0.0172	0.3627	0.0130	0.0006	-0.0050	0.0900	-0.3822
35	0.01	-6.41	0.8817	0.0169	0.3096	0.0192	0.3511	0.0071	0.0013	-0.0090	0.1831	-1.2724
36	0.01	-7.21	0.9251	0.0209	0.3213	0.0226	0.3473	0.0083	0.0006	-0.0066	0.0763	-0.7993
37	0.01	-8.02	0.9748	0.0246	0.3316	0.0253	0.3402	0.0042	0.0014	-0.0109	0.3333	-2.5954
38	0.01	-8.79	1.0138	0.0270	0.3436	0.0267	0.3389	0.0001	0.0016	-0.0086	16.4971	-85.6667
39	0.01	-9.61	1.0310	0.0394	0.3351	0.0382	0.3251	-0.0005	0.0032	-0.0141	-6.4988	28.1332
40	0.01	-10.36	1.0421	0.0465	0.3231	0.0447	0.3100	0.0030	0.0020	-0.0135	-4.5001	
41	0.01	-11.11	1.0651	0.0419	0.3315	0.0393	0.3112	0.0033	0.0019	-0.0147	0.5908	-4.4547
42	0.01	-11.89	1.0814	0.0413	0.3368	0.0382	0.3115	-0.0055	0.0021	-0.0139	-0.3908	2.5332
43	0.01	-12.69	1.0997	0.0459	0.3340	0.0417	0.3038	-0.0060	0.0040	-0.0197	-0.6665	3.2832
44	0.02	-13.42	1.0987	0.0495	0.3262	0.0450	0.2969	-0.0159	0.0069	-0.0229	-0.4370	1.4401
45	0.02	-14.30	1.0320	0.0474	0.3023	0.0460	0.2929	-0.0299	0.0085	-0.0296	-0.2859	0.9887
46	0.02	-15.10	0.9556	0.0346	0.2825	0.0362	0.2961	-0.0311	0.0068	-0.0306	-0.2202	0.9827

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 120 0.85 1.7 0.0 82WOF12 0.0 10 0 10 0 FIXED												
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	-15.94	0.9295	0.0349	0.2804	0.0376	0.3017	-0.0220	0.0116	-0.0356	-0.5295	1.6196
48	0.02	-16.73	0.9275	0.0296	0.2806	0.0320	0.3025	-0.0156	0.0147	-0.0358	-0.9453	2.2948
49	0.02	-17.59	0.9379	0.0240	0.2840	0.0256	0.3028	0.0	0.0105	-0.0204	0.0105	-0.0204
50	0.02	-18.44	0.9993	0.0210	0.2569	0.0210	0.2971	0.0256	0.0002	0.0001	0.0078	0.0051
51	0.01	-19.31	1.0082	0.0213	0.2975	0.0212	0.2950	0.0183	0.0020	-0.0063	0.1093	-0.3444
52	0.01	-20.07	1.0096	0.0218	0.2978	0.0216	0.2950	0.0186	0.0056	-0.0097	0.3037	-0.5216

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		120		0.05		1.7	0.0	B2N0F12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4		
1	0.02	19.86	-0.6950	-0.0285	-0.2670	0.0410	0.3841	-0.0045	0.0027	0.0009	-0.6110	-0.2001		
2	0.02	19.59	-0.6863	-0.0288	-0.2699	0.0420	0.3932	0.0030	-0.0018	-0.0007	-0.6166	-0.2335		
3	0.02	18.86	-0.6571	-0.0275	-0.2563	0.0419	0.3932	-0.0049	0.0030	0.0010	-0.6121	-0.1974		
4	0.02	18.05	-0.6385	-0.0273	-0.2501	0.0427	0.3918	0.0041	-0.0025	-0.0009	-0.6218	-0.2278		
5	0.02	17.21	-0.5972	-0.0243	-0.2361	0.0407	0.3953	-0.0033	0.0002	0.0001	-0.6665	-0.3335		
6	0.02	16.39	-0.5524	-0.0213	-0.2219	0.0385	0.4016	0.0028	-0.0017	-0.0006	-0.6249	-0.2025		
7	0.02	15.62	-0.5023	-0.0201	-0.2104	0.0401	0.4188	0.0066	-0.0040	-0.0015	-0.6135	-0.2274		
8	0.02	14.85	-0.4437	-0.0189	-0.1911	0.0427	0.4308	0.0100	-0.0061	-0.0022	-0.6149	-0.2168		
9	0.02	14.08	-0.4041	-0.0183	-0.1691	0.0454	0.4183	0.0085	-0.0052	-0.0019	-0.6175	-0.2197		
10	0.02	13.26	-0.3403	-0.0180	-0.1515	0.0529	0.4463	0.0116	-0.0071	-0.0025	-0.6120	-0.2185		
11	0.01	12.54	-0.2873	-0.0162	-0.1307	0.0564	0.4550	0.0096	-0.0059	-0.0021	-0.6145	-0.2189		
12	0.01	11.74	-0.2364	-0.0153	-0.1151	0.0649	0.4868	0.0124	-0.0076	-0.0028	-0.6128	-0.2232		
13	0.01	10.96	-0.2036	-0.0135	-0.0944	0.0663	0.4639	0.0112	-0.0069	-0.0025	-0.6160	-0.2204		
14	0.01	10.14	-0.1362	-0.0108	-0.0745	0.0793	0.5469	0.0093	-0.0057	-0.0020	-0.6128	-0.2152		
15	0.01	9.36	-0.1064	-0.0105	-0.0575	0.0991	0.5409	0.0081	-0.0050	-0.0018	-0.6172	-0.2223		
16	0.01	8.53	-0.0555	-0.0050	-0.0426	0.1989	0.9354	0.0075	-0.0046	-0.0016	-0.6132	-0.2135		
17	0.01	7.75	-0.0082	-0.0072	-0.0224	0.8779	2.7357	0.0048	-0.0029	-0.0010	-0.6145	-0.2085		
18	0.01	6.98	0.0250	-0.0068	-0.0034	-0.2740	-0.1348	0.0051	-0.0031	-0.0011	-0.6175	-0.2158		
19	0.01	6.16	0.0692	-0.0049	0.0116	-0.0715	0.1670	0.0026	-0.0016	-0.0005	-0.6153	-0.2052		
20	0.01	5.36	0.1127	-0.0047	0.0266	-0.0421	0.2365	0.0030	-0.0018	-0.0006	-0.6166	-0.2001		
21	0.01	4.52	0.1599	-0.0044	0.0514	-0.0275	0.3213	0.0016	-0.0010	-0.0004	-0.6249	-0.2293		
22	0.01	3.76	0.2076	-0.0036	0.0668	-0.0173	0.3217	0.0011	-0.0006	-0.0002	-0.5908	-0.2122		
23	0.01	3.00	0.2604	-0.0025	0.0501	-0.0096	0.3459	0.0007	-0.0004	-0.0002	-0.5713	-0.2382		
24	0.01	2.24	0.3189	-0.0014	0.1091	-0.0044	0.3420	0.0003	-0.0002	-0.0001	-0.6665	-0.3335		
25	0.01	1.47	0.3716	0.0004	0.1321	0.0012	0.3555	0.0004	-0.0002	-0.0001	-0.6249	-0.1668		
26	0.01	0.69	0.4353	0.0016	0.1570	0.0038	0.3605	0.0	0.0	0.0	0.0	0.0		
27	0.01	-0.03	0.4862	0.0025	0.1796	0.0051	0.3694	-0.0004	0.0002	0.0001	-0.6249	-0.1668		
28	0.01	-0.86	0.5444	0.0033	0.1973	0.0062	0.3624	0.0	0.0	0.0	0.0	0.0		
29	0.01	-1.65	0.6048	0.0054	0.2167	0.0090	0.3583	-0.0001	0.0000	0.0001	-0.4999	-0.6668		
30	0.01	-2.46	0.6561	0.0078	0.2348	0.0119	0.3579	0.0	0.0	0.0	0.0	0.0		
31	0.01	-3.28	0.7082	0.0105	0.2511	0.0148	0.3545	-0.0001	0.0000	0.0001	-0.4999	-0.6668		
32	0.01	-4.10	0.7662	0.0145	0.2674	0.0190	0.3490	0.0001	-0.0000	-0.0001	-0.4999	-0.6668		
33	0.01	-4.86	0.8253	0.0181	0.2817	0.0220	0.3413	-0.0003	0.0002	0.0001	-0.6665	-0.3335		
34	0.01	-5.64	0.8701	0.0210	0.2923	0.0241	0.3360	-0.0003	0.0002	0.0001	-0.6665	-0.3335		
35	0.01	-6.41	0.9267	0.0246	0.3036	0.0265	0.3276	0.0	0.0	0.0	0.0	0.0		
36	0.01	-7.21	0.9662	0.0288	0.3162	0.0298	0.3272	-0.0004	0.0002	0.0001	-0.6249	-0.1668		
37	0.01	-8.02	1.0165	0.0327	0.3252	0.0322	0.3199	0.0006	-0.0003	-0.0001	-0.5632	-0.1668		
38	0.01	-8.79	1.0566	0.0359	0.3352	0.0340	0.3172	-0.0003	0.0002	0.0001	-0.6665	-0.3335		
39	0.01	-9.61	1.0962	0.0403	0.3394	0.0368	0.3096	0.0008	-0.0004	-0.0002	-0.5624	-0.2918		
40	0.01	-10.36	1.0539	0.0547	0.3148	0.0519	0.2987	-0.0004	0.0002	0.0001	-0.6249	-0.1668		
41	0.01	-11.11	1.0877	0.0519	0.3227	0.0477	0.2967	-0.0006	0.0003	0.0001	-0.5832	-0.1668		
42	0.01	-11.89	1.1157	0.0499	0.3254	0.0447	0.2916	-0.0008	0.0005	0.0001	-0.6249	-0.1668		
43	0.01	-12.69	1.1525	0.0522	0.3261	0.0453	0.2830	-0.0008	0.0004	0.0001	-0.5624	-0.1668		
44	0.02	-13.42	1.1720	0.0548	0.3230	0.0467	0.2756	-0.0006	-0.0003	-0.0001	-0.5832	-0.1668		
45	0.02	-14.30	1.1663	0.0573	0.3175	0.0491	0.2723	0.0007	-0.0004	-0.0002	-0.5713	-0.2382		
46	0.02	-15.10	1.1512	0.0557	0.3076	0.0484	0.2672	-0.0003	0.0002	0.0001	-0.6665	-0.3335		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARLIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 120 0.85 1.7 0.0 82W0F12 0.0 10 0 10 0 FIXED												
POINT	ALPHA	BETA	CNF 3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-15.94	1.1121	0.0527	0.2981	0.0474	0.2680	0.0	0.0	0.0	0.0	0.0
48	0.02	-16.73	1.0984	0.0465	0.2557	0.0427	0.2692	0.0003	-0.0002	-0.0001	-0.6665	-0.3335
49	0.02	-17.59	1.0526	0.0331	0.2923	0.0315	0.2776	0.0003	-0.0002	-0.0001	-0.6665	-0.3335
50	0.02	-18.44	1.0245	0.0279	0.2844	0.0272	0.2780	0.0006	-0.0003	-0.0001	-0.5832	-0.1668
51	0.01	-19.31	1.0461	0.0281	0.2932	0.0269	0.2803	0.0	0.0	0.0	0.0	0.0
52	0.01	-20.07	1.0931	0.0282	0.3049	0.0258	0.2790	-0.0001	0.0000	0.0001	-0.4999	-0.6668

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			121	0.92	1.7	0.0	B2W0F12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	0.02	19.76	-0.0280	0.1072	-3.0941	4.7467	0.0060	-0.1200	-3.8286				
2	0.03	19.77	0.0081	0.1586	-3.0550	4.7679	-0.0010	-0.1157	19.5876				
3	0.03	19.76	0.0158	0.1579	-3.1010	4.7333	-0.0030	-0.1226	9.9924				
4	0.02	19.22	-0.0210	0.1434	-2.9903	4.6514	0.0070	-0.1050	-6.8286				
5	0.02	18.47	0.0262	0.0063	-2.8424	4.5183	-0.0040	-0.1075	0.2412				
6	0.02	16.79	0.0101	0.0918	-2.5308	3.9060	-0.0050	-0.0717	9.0950				
7	0.02	15.99	-0.0164	0.0819	-2.2907	3.5323	0.0040	-0.0564	-4.9976				
8	0.01	15.23	-0.0290	0.0846	-2.1051	3.1671	0.0010	-0.0358	-2.9172				
9	0.02	14.44	-0.0107	0.1050	-1.9396	2.7905	0.0050	-0.0167	-9.8112				
10	0.02	13.66	-0.0115	0.1101	-1.7374	2.3223	0.0080	0.0107	-9.5739				
11	0.02	12.89	0.0016	0.0738	-1.5720	1.9148	0.0110	0.0340	46.1000				
12	0.01	12.12	-0.0165	0.0501	-1.3684	1.5068	0.0120	0.0551	-3.0364				
13	0.01	11.31	-0.0048	0.0337	-1.1848	1.0839	0.0110	0.0770	-7.0250				
14	0.01	10.55	0.0085	-0.0009	-1.0236	0.7571	0.0150	0.1006	-0.1059				
15	0.01	9.71	0.0095	-0.0183	-0.8848	0.4378	0.0140	0.1154	-1.9263				
16	0.01	8.95	0.0060	-0.0164	-0.7424	0.1505	0.0130	0.1302	-2.7333				
17	0.01	8.12	0.0203	-0.0384	-0.6343	-0.1498	0.0170	0.1482	-1.8926				
18	0.01	7.33	0.0284	-0.0698	-0.4398	-0.4401	0.0180	0.1616	-2.4563				
19	0.01	6.53	0.0177	-0.0508	-0.3216	-0.7517	0.0180	0.1740	-2.8689				
20	0.01	5.73	0.0297	-0.0756	-0.1708	-1.0537	0.0160	0.1820	-2.5448				
21	0.01	4.95	0.0403	-0.0914	-0.0423	-1.3546	0.0130	0.1893	-2.2685				
22	0.01	4.13	0.0233	-0.0616	0.0867	-1.7118	0.0140	0.2016	-2.6446				
23	0.01	3.37	0.0264	-0.0869	0.1691	-2.0005	0.0160	0.2100	-3.2439				
24	0.01	2.60	0.0401	-0.1061	0.3882	-2.4683	0.0120	0.2264	-2.6469				
25	0.01	1.82	0.0334	-0.1067	0.4924	-2.8271	0.0100	0.2360	-3.1964				
26	0.01	1.03	0.0443	-0.1210	0.6882	-3.3062	0.0120	0.2517	-2.7318				
27	0.01	0.31	0.0380	-0.1112	0.8144	-3.7458	0.0160	0.2655	-2.9263				
28	0.01	-0.44	0.0413	-0.1338	0.9765	-4.1187	0.0170	0.2737	-3.2402				
29	0.01	-1.27	0.0417	-0.1224	1.1738	-4.5860	0.0130	0.2859	-2.9348				
30	0.01	-2.06	0.0389	-0.1084	1.3101	-4.9458	0.0100	0.2994	-2.7882				
31	0.01	-2.90	0.0492	-0.1449	1.3868	-5.3111	0.0120	0.3155	-2.9447				
32	0.01	-3.69	0.0415	-0.1321	1.5591	-5.7023	0.0130	0.3315	-3.1831				
33	0.01	-4.51	0.0301	-0.1171	1.7462	-6.1857	0.0150	0.3463	-3.8917				
34	0.01	-5.26	0.0391	-0.1467	1.8418	-6.5219	0.0140	0.3610	-3.7529				
35	0.01	-6.07	0.0486	-0.1750	1.9894	-6.9247	0.0100	0.3829	-3.6016				
36	0.01	-6.85	0.0475	-0.1875	2.1316	-7.3080	0.0110	0.3932	-3.9474				
37	0.01	-7.68	0.0587	-0.1702	2.3007	-7.7684	0.0090	0.4064	-2.8971				
38	0.01	-8.44	0.0599	-0.2228	2.4346	-8.0788	0.0150	0.4166	-3.7205				
39	0.01	-9.25	0.0600	-0.2340	2.6256	-8.4821	0.0180	0.4284	-3.9000				
40	0.01	-10.03	0.0611	-0.2245	2.7364	-8.7834	0.0130	0.4314	-3.6750				
41	0.01	-10.81	0.0483	-0.1956	2.8979	-8.9175	0.0150	0.4323	-4.0501				
42	0.01	-11.54	0.0804	-0.2395	2.9962	-8.8731	0.0120	0.4456	-2.9796				
43	0.01	-12.33	0.0693	-0.1540	3.0754	-8.9010	0.0060	0.4680	-2.2225				
44	0.01	-13.06	0.0528	-0.1549	3.1497	-8.9800	-0.0060	0.4686	-2.9341				
45	0.01	-13.90	0.0466	-0.1272	3.2178	-8.8293	0.0020	0.4827	-2.7305				
46	0.02	-14.72	0.0216	0.0308	3.2440	-8.4970	-0.0320	0.4903	2.3500				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	121	0.92	1.7	0.0	B2WOF12	0.0	10	0	10	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.02	-15.50	0.0515	-0.0581	3.3046	-8.4469	-0.0350	0.4945	-1.1202
48	0.01	-16.33	0.0245	-0.0523	3.4234	-8.3042	-0.0260	0.4948	-2.1347
49	0.02	-17.18	0.0439	-0.0774	3.5244	-8.4318	-0.0160	0.4965	-1.7045
50	0.01	-18.02	0.0389	-0.0695	3.7463	-8.6904	-0.0260	0.4802	-1.7656
51	0.01	-18.89	0.0239	-0.0435	3.8986	-8.8646	-0.0080	0.4790	-1.8184
52	0.01	-19.67	0.0472	-0.1151	4.0658	-9.1726	-0.0140	0.4808	-2.4381

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 121 0.92 1.7			0.0	B2WOF12	0.0	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	C01	XCPF1	YCPF1	CNF2	CH2	C02	XCPF2	YCPF2
1	0.02	19.76	-0.8719	-0.0234	-0.2231	0.0269	0.2558	0.0675	0.0002	0.0049	0.0037	0.0725
2	0.03	19.77	-0.8958	-0.0239	-0.2253	0.0267	0.2515	0.0581	0.0007	-0.0010	0.0120	-0.0179
3	0.03	19.76	-0.8932	-0.0245	-0.2247	0.0274	0.2515	0.0635	0.0	0.0018	0.0	0.0277
4	0.02	19.22	-0.8775	-0.0238	-0.2221	0.0271	0.2531	0.0621	0.0008	0.0004	0.0129	0.0063
5	0.02	18.47	0.0	0.0	0.0	0.0	0.0	0.0065	0.0	-0.0016	0.0	-0.2822
6	0.02	16.79	-0.7729	-0.0197	-0.1964	0.0255	0.2542	0.0593	0.0007	-0.0006	0.0126	-0.0108
7	0.02	15.99	-0.7063	-0.0173	-0.1802	0.0246	0.2552	0.0591	0.0004	0.0004	0.0076	0.0066
8	0.01	15.23	-0.6611	-0.0166	-0.1663	0.0251	0.2515	0.0597	0.0006	-0.0026	0.0100	-0.0437
9	0.02	14.44	-0.5889	-0.0165	-0.1478	0.0280	0.2510	0.0568	0.0008	-0.0034	0.0150	-0.0594
10	0.02	13.66	-0.5235	-0.0177	-0.1292	0.0338	0.2469	0.0520	0.0008	-0.0031	0.0154	-0.0591
11	0.02	12.89	-0.4574	-0.0189	-0.1045	0.0414	0.2285	0.0525	0.0016	-0.0057	0.0314	-0.1087
12	0.01	12.12	-0.4025	-0.0209	-0.0817	0.0520	0.2031	0.0422	0.0013	-0.0067	0.0320	-0.1597
13	0.01	11.31	-0.3535	-0.0191	-0.0646	0.0541	0.1828	0.0521	0.0009	-0.0039	0.0173	-0.0756
14	0.01	10.55	-0.3029	-0.0168	-0.0512	0.0554	0.1689	0.0519	0.0012	-0.0041	0.0241	-0.0791
15	0.01	9.71	-0.2553	-0.0158	-0.0305	0.0619	0.1193	0.0514	0.0018	-0.0029	0.0360	-0.0555
16	0.01	8.95	-0.2134	-0.0142	-0.0205	0.0668	0.0961	0.0404	0.0008	-0.0066	0.0210	-0.1643
17	0.01	8.12	-0.1609	-0.0117	-0.0034	0.0727	0.0212	0.0459	0.0009	-0.0048	0.0207	-0.1047
18	0.01	7.33	-0.1131	-0.0115	0.0127	0.1017	-0.1124	0.0458	0.0012	-0.0047	0.0273	-0.1035
19	0.01	6.53	-0.0741	-0.0101	0.0327	0.1363	-0.4414	0.0356	0.0010	-0.0059	0.0281	-0.1668
20	0.01	5.73	-0.0384	-0.0098	0.0468	0.2565	-1.2189	0.0400	0.0006	-0.0055	0.0162	-0.1368
21	0.01	4.95	0.0159	-0.0097	0.0643	-0.6100	4.0439	0.0430	0.0011	-0.0058	0.0267	-0.1342
22	0.01	4.13	0.0656	-0.0097	0.0835	-0.1486	1.2738	0.0301	0.0009	-0.0081	0.0316	-0.2681
23	0.01	3.37	0.1108	-0.0107	0.1041	-0.0966	0.9397	0.0304	0.0010	-0.0094	0.0345	-0.3082
24	0.01	2.60	0.1744	-0.0120	0.1284	-0.0688	0.7392	0.0343	0.0010	-0.0070	0.0291	-0.2032
25	0.01	1.82	0.2276	-0.0130	0.1477	-0.0573	0.6491	0.0346	0.0008	-0.0086	0.0246	-0.2477
26	0.01	1.03	0.2955	-0.0149	0.1707	-0.0506	0.5775	0.0305	0.0009	-0.0097	0.0295	-0.3192
27	0.01	0.31	0.3743	-0.0159	0.1971	-0.0426	0.5266	0.0314	0.0009	-0.0074	0.0302	-0.2368
28	0.01	-0.44	0.4288	-0.0155	0.2157	-0.0361	0.5030	0.0289	0.0006	-0.0091	0.0208	-0.3138
29	0.01	-1.27	0.5013	-0.0149	0.2381	-0.0298	0.4750	0.0289	0.0010	-0.0093	0.0346	-0.3208
30	0.01	-2.06	0.5576	-0.0122	0.2540	-0.0219	0.4555	0.0302	0.0009	-0.0081	0.0315	-0.2694
31	0.01	-2.90	0.6213	-0.0111	0.2687	-0.0179	0.4325	0.0232	0.0009	-0.0100	0.0409	-0.4297
32	0.01	-3.69	0.6723	-0.0092	0.2854	-0.0138	0.4245	0.0235	0.0009	-0.0111	0.0404	-0.4710
33	0.01	-4.51	0.7349	-0.0058	0.3014	-0.0079	0.4101	0.0232	0.0011	-0.0100	0.0474	-0.4297
34	0.01	-5.26	0.7924	-0.0037	0.3121	-0.0047	0.3939	0.0191	0.0011	-0.0116	0.0576	-0.6092
35	0.01	-6.07	0.8457	-0.0018	0.3248	-0.0021	0.3840	0.0205	0.0011	-0.0110	0.0561	-0.5351
36	0.01	-6.85	0.8904	-0.0004	0.3369	-0.0004	0.3784	0.0194	0.0008	-0.0125	0.0438	-0.6462
37	0.01	-7.68	0.9537	0.0017	0.3525	0.0018	0.3700	0.0231	0.0002	-0.0090	0.0108	-0.3897
38	0.01	-8.44	0.9799	0.0026	0.3646	0.0027	0.3721	0.0220	0.0011	-0.0109	0.0500	-0.4941
39	0.01	-9.25	1.0294	0.0047	0.3737	0.0046	0.3630	0.0224	0.0012	-0.0125	0.0558	-0.5596
40	0.01	-10.03	1.0569	0.0130	0.3714	0.0123	0.3514	0.0232	0.0026	-0.0108	0.1142	-0.4642
41	0.01	-10.81	1.0726	0.0242	0.3641	0.0226	0.3395	0.0193	0.0018	-0.0124	0.0932	-0.6409
42	0.01	-11.54	1.0733	0.0298	0.3606	0.0276	0.3360	0.0190	0.0019	-0.0113	0.1000	-0.5931
43	0.01	-12.33	1.0776	0.0284	0.3596	0.0264	0.3337	0.0191	0.0016	-0.0113	0.0864	-0.5935
44	0.01	-13.06	1.0572	0.0323	0.3443	0.0305	0.3256	0.0153	0.0019	-0.0144	0.1242	-0.9413
45	0.01	-13.90	1.0307	0.0352	0.3300	0.0342	0.3201	0.0159	0.0060	-0.0192	0.3773	-1.2077
46	0.02	-14.72	0.9519	0.0282	0.3033	0.0297	0.3186	0.0029	0.0047	-0.0209	1.6376	-7.2185

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 121 0.92 1.7 0.0 BZWOF12 0.0 10 0 10 0 FIXED												
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.02	-15.56	0.9283	0.0239	0.3016	0.0257	0.3249	0.0187	0.0067	-0.0186	0.3609	-0.9930
48	0.01	-16.33	0.9412	0.0210	0.2955	0.0223	0.3144	0.0175	0.0073	-0.0205	0.4171	-1.1696
49	0.02	-17.18	0.9796	0.0198	0.3033	0.0202	0.3096	0.0336	0.0030	-0.0092	0.0908	-0.2739
50	0.01	-18.02	0.9924	0.0159	0.3113	0.0160	0.3137	0.0372	0.0001	-0.0031	0.0040	-0.0835
51	0.01	-18.89	1.0296	0.0124	0.3184	0.0120	0.3092	0.0304	-0.0012	-0.0059	-0.0411	-0.1931
52	0.01	-19.67	1.0433	0.0105	0.3238	0.0101	0.3104	0.0325	0.0052	-0.0123	0.1615	-0.3776

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	121	0.92	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	19.76	-0.6920	-0.0122	-0.2937	0.0176	0.4244	0.0153	-0.0094	-0.0033	-0.6175	-0.2158
2	0.03	19.77	-0.6858	-0.0122	-0.2907	0.0179	0.4239	0.0046	-0.0028	-0.0010	-0.6195	-0.2103
3	0.03	19.76	-0.6883	-0.0125	-0.2885	0.0182	0.4192	0.0027	-0.0017	-0.0006	-0.6295	-0.2223
4	0.02	19.22	-0.6894	-0.0125	-0.2862	0.0182	0.4152	0.0045	-0.0058	-0.0020	-0.6157	-0.2142
5	0.02	18.47	0.0084	0.0	-0.0017	0.0	-0.2025	0.2294	-0.0010	-2.5601	-0.0044	-11.1620
6	0.02	16.79	-0.5680	-0.0069	-0.2589	0.0121	0.4557	0.0027	-0.0016	-0.0006	-0.6110	-0.2223
7	0.02	15.99	-0.5182	-0.0065	-0.2422	0.0126	0.4673	0.0101	-0.0062	-0.0022	-0.6138	-0.2212
8	0.01	15.23	-0.4669	-0.0068	-0.2234	0.0146	0.4784	0.0075	-0.0046	-0.0016	-0.6132	-0.2135
9	0.02	14.44	-0.4067	-0.0081	-0.2004	0.0199	0.4928	0.0134	-0.0082	-0.0029	-0.6156	-0.2190
10	0.02	13.66	-0.3587	-0.0088	-0.1805	0.0247	0.5032	0.0105	-0.0065	-0.0023	-0.6189	-0.2192
11	0.02	12.89	-0.3014	-0.0111	-0.1528	0.0370	0.5070	0.0153	-0.0094	-0.0034	-0.6143	-0.2223
12	0.01	12.12	-0.2455	-0.0142	-0.1300	0.0580	0.5295	0.0127	-0.0078	-0.0028	-0.6180	-0.2180
13	0.01	11.31	-0.1901	-0.0140	-0.1115	0.0739	0.5868	0.0141	-0.0087	-0.0031	-0.6169	-0.2200
14	0.01	10.55	-0.1559	-0.0119	-0.0941	0.0763	0.6039	0.0168	-0.0103	-0.0037	-0.6160	-0.2204
15	0.01	9.71	-0.1076	-0.0115	-0.0771	0.1073	0.7170	0.0139	-0.0086	-0.0030	-0.6186	-0.2135
16	0.01	8.95	-0.0573	-0.0103	-0.0570	0.1806	0.9946	0.0102	-0.0063	-0.0022	-0.6175	-0.2158
17	0.01	8.12	-0.0140	-0.0086	-0.0376	0.6177	2.6832	0.0121	-0.0074	-0.0027	-0.6156	-0.2205
18	0.01	7.33	0.0279	-0.0080	-0.0237	-0.2885	-0.8496	0.0095	-0.0058	-0.0020	-0.6157	-0.2142
19	0.01	6.53	0.0786	-0.0076	-0.0058	-0.0473	-0.0734	0.0063	-0.0038	-0.0014	-0.6110	-0.2223
20	0.01	5.73	0.1219	-0.0071	-0.0111	-0.0582	0.0912	0.0071	-0.0043	-0.0015	-0.6126	-0.2161
21	0.01	4.95	0.1630	-0.0065	0.0326	-0.0399	0.2001	0.0049	-0.0030	-0.0011	-0.6223	-0.2178
22	0.01	4.13	0.2025	-0.0067	0.0565	-0.0331	0.2769	0.0043	-0.0026	-0.0010	-0.6162	-0.2249
23	0.01	3.37	0.2401	-0.0071	0.0768	-0.0298	0.3199	0.0030	-0.0018	-0.0007	-0.5999	-0.2335
24	0.01	2.60	0.3203	-0.0087	0.1004	-0.0271	0.3136	0.0023	-0.0014	-0.0005	-0.6086	-0.2320
25	0.01	1.82	0.3622	-0.0099	0.1260	-0.0275	0.3478	0.0018	-0.0011	-0.0004	-0.6388	-0.2223
26	0.01	1.03	0.4242	-0.0111	0.1504	-0.0262	0.3544	0.0020	-0.0012	-0.0004	-0.6249	-0.2168
27	0.01	0.31	0.4892	-0.0119	0.1757	-0.0243	0.3592	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
28	0.01	-0.44	0.5473	-0.0112	0.1956	-0.0205	0.3573	0.0018	-0.0011	-0.0004	-0.6388	-0.2223
29	0.01	-1.27	0.6113	-0.0103	0.2173	-0.0169	0.3555	0.0013	-0.0007	-0.0003	-0.5768	-0.2052
30	0.01	-2.06	0.6677	-0.0083	0.2375	-0.0125	0.3557	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
31	0.01	-2.90	0.7197	-0.0059	0.2565	-0.0063	0.3564	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
32	0.01	-3.69	0.7748	-0.0038	0.2677	-0.0049	0.3455	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
33	0.01	-4.51	0.8221	-0.0009	0.2876	-0.0012	0.3449	0.0013	-0.0007	-0.0003	-0.5768	-0.2052
34	0.01	-5.26	0.8788	0.0025	0.2990	0.0028	0.3403	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
35	0.01	-6.07	0.9362	0.0043	0.3164	0.0046	0.3379	0.0010	-0.0006	-0.0003	-0.5999	-0.2668
36	0.01	-6.85	0.9738	0.0066	0.3268	0.0068	0.3356	0.0019	-0.0011	-0.0005	-0.6052	-0.2457
37	0.01	-7.68	1.0258	0.0101	0.3383	0.0098	0.3248	0.0025	-0.0003	-0.0001	-0.6999	-0.2668
38	0.01	-8.44	1.0718	0.0118	0.3484	0.0111	0.3256	0.0029	-0.0005	-0.0002	-0.6110	-0.2223
39	0.01	-9.25	1.1004	0.0159	0.3551	0.0144	0.3227	0.0033	-0.0001	-0.0001	-0.4999	-0.3335
40	0.01	-10.03	1.1415	0.0219	0.3524	0.0192	0.3087	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
41	0.01	-10.81	1.1552	0.0332	0.3438	0.0287	0.2976	0.0005	-0.0003	-0.0001	-0.6999	-0.2668
42	0.01	-11.54	1.1877	0.0384	0.3392	0.0324	0.2856	-0.0003	0.0001	0.0001	-0.4999	-0.3335
43	0.01	-12.33	1.1735	0.0368	0.3374	0.0314	0.2875	0.0	0.0	0.0	0.0	0.0
44	0.01	-13.06	1.1769	0.0391	0.3281	0.0333	0.2788	0.0001	-0.0001	0.0000	-0.9998	0.3332
45	0.01	-13.90	1.1741	0.0435	0.3155	0.0370	0.2691	-0.0003	0.0001	0.0001	-0.4999	-0.3335
46	0.02	-14.72	1.1564	0.0434	0.3054	0.0379	0.2641	0.0001	-0.0000	-0.0001	-0.4999	-0.6668

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 121 0.92 1.7				0.0	BZMOF12	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.02	-15.56	1.1928	0.0411	0.3015	0.0363	0.2661	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
48	0.01	-16.33	1.1086	0.0342	0.2928	0.0308	0.2641	-0.0003	0.0001	0.0001	-0.4999	-0.3335
49	0.02	-17.18	1.0832	0.0245	0.2935	0.0226	0.2709	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
50	0.01	-18.02	1.1030	0.0216	0.2589	0.0196	0.2710	0.0009	-0.0006	-0.0002	-0.6665	-0.2223
51	0.01	-18.89	1.1168	0.0173	0.3064	0.0155	0.2744	-0.0003	0.0001	0.0001	-0.4999	-0.3335
52	0.01	-19.67	1.1610	0.0162	0.3163	0.0140	0.2724	0.0005	-0.0003	-0.0001	-0.6999	-0.2668

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION
6 122 0.97 1.7				0.0	B2WOF12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.79	-0.0843	0.2970	-3.0635	4.5069	0.0040	-0.0858	-3.5234		
2	0.02	19.78	-0.0360	0.1644	-3.1160	4.4104	0.0	-0.0775	-4.5067		
3	0.02	19.79	-0.0062	0.0867	-3.1330	4.4662	-0.0030	-0.0780	-13.9806		
4	0.02	19.07	0.0131	0.0007	-3.0765	4.3491	-0.0070	-0.0628	0.0504		
5	0.02	18.29	-0.0130	0.1042	-2.9228	4.1879	-0.0050	-0.0550	-8.0154		
6	0.02	17.47	-0.0128	0.1129	-2.7760	3.9084	-0.0010	-0.0366	-8.6219		
7	0.02	16.68	-0.0018	0.1365	-2.5438	3.5353	-0.0030	-0.0118	-75.6444		
8	0.02	15.90	-0.0128	0.1249	-2.3218	3.1792	-0.0030	0.0138	-9.7594		
9	0.02	15.13	-0.0077	0.1318	-2.1544	2.8822	0.0050	0.0248	-17.1143		
10	0.02	14.33	-0.0030	0.0612	-1.9568	2.5346	0.0110	0.0486	-20.4000		
11	0.02	13.56	-0.0255	0.1227	-1.7382	2.1625	0.0040	0.0668	-4.8118		
12	0.02	12.84	-0.0067	0.1104	-1.5239	1.8435	0.0090	0.0890	-16.4746		
13	0.02	12.03	-0.0017	0.0834	-1.4183	1.5117	0.0100	0.1060	-49.0470		
14	0.02	11.21	-0.0071	0.0719	-1.2079	1.1852	0.0130	0.1224	-10.1324		
15	0.02	10.48	0.0129	0.0269	-1.0397	0.8556	0.0110	0.1406	2.0884		
16	0.01	9.64	0.0113	-0.0258	-0.8714	0.4920	0.0080	0.1606	-2.2850		
17	0.01	8.87	0.0130	-0.0162	-0.7628	0.1850	0.0150	0.1724	-1.2462		
18	0.01	8.03	0.0314	-0.0580	-0.6505	-0.0702	0.0140	0.1843	-1.8459		
19	0.01	7.26	0.0096	-0.0354	-0.4758	-0.4247	0.0170	0.2017	-3.6917		
20	0.01	6.45	0.0158	-0.0591	-0.3789	-0.7124	0.0170	0.2113	-3.7418		
21	0.01	5.64	0.0117	-0.0614	-0.2146	-1.0114	0.0150	0.2221	-5.2462		
22	0.01	4.83	0.0315	-0.0661	-0.0555	-1.3361	0.0140	0.2323	-2.0944		
23	0.01	4.05	0.0322	-0.0981	0.0992	-1.6887	0.0140	0.2454	-3.0460		
24	0.01	3.27	0.0364	-0.0879	0.1989	-2.0492	0.0140	0.2551	-2.4165		
25	0.01	2.53	0.0367	-0.1134	0.3291	-2.3964	0.0160	0.2705	-3.0834		
26	0.01	1.71	0.0375	-0.1125	0.5203	-2.8112	0.0130	0.2890	-3.0000		
27	0.01	0.96	0.0491	-0.1427	0.6451	-3.2479	0.0160	0.3038	-2.9071		
28	0.01	0.20	0.0576	-0.1436	0.8092	-3.6095	0.0180	0.3155	-2.4937		
29	0.01	-0.57	0.0431	-0.1303	0.5102	-4.0169	0.0160	0.3358	-3.0241		
30	0.01	-1.40	0.0454	-0.1485	1.1147	-4.4781	0.0170	0.3513	-3.2722		
31	0.01	-2.19	0.0425	-0.1325	1.2665	-4.9077	0.0170	0.3607	-3.1176		
32	0.01	-3.01	0.0567	-0.1494	1.4133	-5.2912	0.0150	0.3748	-2.6346		
33	0.01	-3.81	0.0532	-0.1535	1.5298	-5.6333	0.0150	0.3845	-2.8650		
34	0.01	-4.62	0.0460	-0.1372	1.7503	-6.1509	0.0140	0.4081	-2.8583		
35	0.01	-5.36	0.0438	-0.1553	1.8659	-6.4817	0.0130	0.4190	-3.5461		
36	0.01	-6.19	0.0657	-0.1980	1.9886	-6.8666	0.0140	0.4347	-3.0134		
37	0.01	-6.97	0.0676	-0.1766	2.1738	-7.3018	0.0140	0.4516	-2.6130		
38	0.01	-7.78	0.0440	-0.1336	2.3651	-7.8075	0.0110	0.4586	-3.0364		
39	0.01	-8.56	0.0460	-0.1684	2.4930	-8.1546	0.0150	0.4694	-3.6174		
40	0.01	-9.37	0.0533	-0.1806	2.6454	-8.5176	0.0130	0.4846	-3.3887		
41	0.01	-10.16	0.0594	-0.2211	2.7454	-8.8910	0.0150	0.5059	-3.7232		
42	0.01	-10.93	0.0564	-0.2169	2.9691	-9.2541	0.0130	0.5231	-3.8468		
43	0.0	-11.67	0.0446	-0.1864	3.1232	-9.5828	0.0160	0.5327	-4.1803		
44	0.01	-12.45	0.0650	-0.2530	3.2606	-9.6761	0.0130	0.5294	-3.8923		
45	0.01	-13.19	0.0431	-0.1243	3.3532	-9.4498	-0.0010	0.5380	-2.8849		
46	0.01	-14.06	0.0356	-0.1208	3.4330	-9.5535	-0.0040	0.5447	-3.3944		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			122		0.97		1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP						
47	0.01	-14.85	0.0441	-0.1347	3.5232	-9.3989	-0.0150	0.5466	-3.0553						
48	0.01	-15.66	0.0342	-0.0789	3.5913	-9.1513	-0.0440	0.5502	-2.3064						
49	0.02	-16.45	0.0262	-0.0047	3.6603	-9.1339	-0.0540	0.5501	-0.3695						
50	0.01	-17.30	0.0536	-0.1550	3.8065	-9.1436	-0.0280	0.5455	-2.8925						
51	0.01	-18.13	0.0395	-0.1293	3.9215	-9.0476	-0.0170	0.5327	-3.2734						
52	0.01	-19.00	0.0477	-0.1868	4.0637	-9.0857	-0.0150	0.5175	-3.9157						
53	0.01	-19.76	0.0538	-0.1123	4.2664	-9.2536	-0.0250	0.5066	-2.0877						

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		122		0.97		1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2		
1	0.02	19.79	-0.8871	-0.0201	-0.2164	0.0227	0.2440	0.0612	-0.0001	-0.0032	-0.0016	-0.0524		
2	0.02	19.78	-0.8876	-0.0198	-0.2158	0.0223	0.2431	0.0673	-0.0001	0.0013	-0.0022	0.0197		
3	0.02	19.79	-0.8875	-0.0202	-0.2166	0.0228	0.2440	0.0753	-0.0010	0.0038	-0.0139	0.0503		
4	0.02	19.07	-0.8836	-0.0201	-0.2170	0.0228	0.2455	0.0730	0.0	0.0007	0.0	0.0099		
5	0.02	18.29	-0.8479	-0.0200	-0.2100	0.0236	0.2476	0.0730	0.0001	0.0007	0.0014	0.0099		
6	0.02	17.47	-0.7907	-0.0202	-0.1968	0.0255	0.2489	0.0713	0.0002	0.0020	0.0028	0.0275		
7	0.02	16.68	-0.7530	-0.0203	-0.1821	0.0270	0.2419	0.0648	0.0007	-0.0007	0.0108	-0.0109		
8	0.02	15.90	-0.6962	-0.0209	-0.1682	0.0300	0.2416	0.0637	0.0007	-0.0022	0.0110	-0.0341		
9	0.02	15.13	-0.6366	-0.0206	-0.1513	0.0324	0.2377	0.0610	0.0006	-0.0026	0.0098	-0.0422		
10	0.02	14.33	-0.5827	-0.0192	-0.1369	0.0330	0.2349	0.0625	0.0014	-0.0044	0.0224	-0.0700		
11	0.02	13.56	-0.5344	-0.0185	-0.1189	0.0346	0.2225	0.0584	0.0011	-0.0046	0.0197	-0.0795		
12	0.02	12.84	-0.4786	-0.0174	-0.1024	0.0363	0.2139	0.0574	0.0014	-0.0063	0.0253	-0.1093		
13	0.02	12.03	-0.4374	-0.0161	-0.0862	0.0368	0.1970	0.0602	0.0011	-0.0061	0.0191	-0.1020		
14	0.02	11.21	-0.3734	-0.0149	-0.0711	0.0400	0.1905	0.0556	0.0008	-0.0047	0.0153	-0.0841		
15	0.02	10.48	-0.3326	-0.0140	-0.0522	0.0421	0.1568	0.0520	0.0013	-0.0077	0.0260	-0.1476		
16	0.01	9.64	-0.2886	-0.0128	-0.0330	0.0443	0.1143	0.0546	0.0013	-0.0070	0.0238	-0.1283		
17	0.01	8.87	-0.2256	-0.0116	-0.0161	0.0516	0.0712	0.0518	0.0011	-0.0069	0.0222	-0.1340		
18	0.01	8.03	-0.1881	-0.0109	-0.0088	0.0582	0.0041	0.0558	0.0010	-0.0059	0.0179	-0.1059		
19	0.01	7.26	-0.1327	-0.0091	0.0177	0.0686	-0.1333	0.0438	0.0015	-0.0087	0.0354	-0.1987		
20	0.01	6.45	-0.1037	-0.0091	0.0355	0.0877	-0.3466	0.0460	0.0012	-0.0061	0.0261	-0.1320		
21	0.01	5.64	-0.0502	-0.0093	0.0560	0.1852	-1.1150	0.0477	0.0010	-0.0072	0.0220	-0.1511		
22	0.01	4.83	-0.0101	-0.0094	0.0708	0.9305	-7.0133	0.0427	0.0010	-0.0102	0.0234	-0.2382		
23	0.01	4.05	0.0394	-0.0098	0.0911	-0.2500	2.3129	0.0446	0.0008	-0.0064	0.0191	-0.1444		
24	0.01	3.27	0.0956	-0.0114	0.1126	-0.1192	1.1784	0.0392	0.0008	-0.0072	0.0204	-0.1846		
25	0.01	2.53	0.1600	-0.0123	0.1313	-0.0769	0.8207	0.0379	0.0010	-0.0079	0.0264	-0.2077		
26	0.01	1.71	0.2129	-0.0128	0.1520	-0.0601	0.7141	0.0344	0.0012	-0.0106	0.0349	-0.3092		
27	0.01	0.96	0.2902	-0.0149	0.1756	-0.0513	0.6050	0.0353	0.0010	-0.0085	0.0297	-0.2419		
28	0.01	0.20	0.3468	-0.0163	0.1953	-0.0470	0.5630	0.0383	0.0013	-0.0096	0.0339	-0.2516		
29	0.01	-0.57	0.4059	-0.0166	0.2203	-0.0410	0.5428	0.0383	0.0012	-0.0096	0.0313	-0.2516		
30	0.01	-1.40	0.4742	-0.0163	0.2387	-0.0345	0.5034	0.0332	0.0012	-0.0115	0.0361	-0.3475		
31	0.01	-2.19	0.5421	-0.0170	0.2576	-0.0314	0.4752	0.0308	0.0010	-0.0128	0.0325	-0.4168		
32	0.01	-3.01	0.5955	-0.0167	0.2765	-0.0281	0.4650	0.0288	0.0010	-0.0103	0.0347	-0.3578		
33	0.01	-3.81	0.6480	-0.0157	0.2876	-0.0243	0.4438	0.0293	0.0012	-0.0125	0.0427	-0.4279		
34	0.01	-4.62	0.7089	-0.0138	0.3090	-0.0195	0.4359	0.0290	0.0013	-0.0112	0.0465	-0.3875		
35	0.01	-5.36	0.7646	-0.0119	0.3201	-0.0156	0.4186	0.0292	0.0014	-0.0121	0.0496	-0.4134		
36	0.01	-6.19	0.8205	-0.0107	0.3337	-0.0131	0.4067	0.0268	0.0018	-0.0138	0.0672	-0.5138		
37	0.01	-6.97	0.8692	-0.0092	0.3482	-0.0106	0.4006	0.0324	0.0016	-0.0139	0.0509	-0.4291		
38	0.01	-7.78	0.9363	-0.0070	0.3626	-0.0075	0.3872	0.0282	0.0021	-0.0140	0.0762	-0.4966		
39	0.01	-8.56	0.9672	-0.0080	0.3741	-0.0083	0.3868	0.0267	0.0013	-0.0130	0.0906	-0.4870		
40	0.01	-9.37	1.0197	-0.0079	0.3869	-0.0077	0.3794	0.0321	0.0017	-0.0123	0.0530	-0.3833		
41	0.01	-10.16	1.0582	-0.0074	0.3980	-0.0070	0.3761	0.0297	0.0019	-0.0140	0.0656	-0.4715		
42	0.01	-10.93	1.1109	-0.0068	0.4056	-0.0061	0.3651	0.0311	0.0023	-0.0141	0.0755	-0.4546		
43	0.0	-11.67	1.1392	-0.0048	0.4131	-0.0043	0.3626	0.0355	0.0021	-0.0147	0.0591	-0.4133		
44	0.01	-12.45	1.1438	-0.0047	0.4038	-0.0041	0.3531	0.0286	0.0026	-0.0158	0.0909	-0.5514		
45	0.01	-13.19	1.1040	0.0169	0.3783	0.0153	0.3426	0.0245	0.0071	-0.0188	0.2918	-0.7688		
46	0.01	-14.06	1.1190	0.0205	0.3703	0.0183	0.3309	0.0171	0.0103	-0.0249	0.6052	-1.4563		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 122 0.97 1.7 0.0 82WOF12 0.0 10 0 10 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	-14.85	1.0839	0.0248	0.3552	0.0229	0.3277	0.0275	0.0019	-0.0165	0.0691	-0.6013
48	0.01	-15.66	1.0600	0.0219	0.3345	0.0207	0.3156	0.0285	0.0065	-0.0176	0.2298	-0.6177
49	0.02	-16.45	1.0307	0.0174	0.3280	0.0169	0.3142	0.0239	0.0078	-0.0226	0.3284	-0.9471
50	0.01	-17.30	1.0771	0.0184	0.3396	0.0171	0.3153	0.0409	0.0014	-0.0077	0.0342	-0.1876
51	0.01	-18.13	1.0856	0.0157	0.3372	0.0145	0.3107	0.0474	-0.0007	-0.0037	-0.0148	-0.0782
52	0.01	-19.00	1.0813	0.0147	0.3398	0.0136	0.3143	0.0489	-0.0006	-0.0041	-0.0123	-0.0840
53	0.01	-19.76	1.0797	0.0090	0.3432	0.0084	0.3178	0.0542	0.0037	-0.0050	0.0683	-0.0930

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	122	0.97	1.7	0.0	B2W012	0.0	10	0	10	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.02	19.79	-0.6706	-0.0076	-0.2880	0.0114	0.4295	-0.0019	0.0012	0.0004	-0.6315	-0.1931
2	0.02	19.78	-0.6595	-0.0072	-0.2895	0.0110	0.4390	-0.0022	0.0013	0.0005	-0.6135	-0.2122
3	0.02	19.79	-0.6526	-0.0076	-0.2895	0.0117	0.4437	-0.0037	0.0022	0.0008	-0.6080	-0.2073
4	0.02	19.07	-0.6421	-0.0081	-0.2827	0.0126	0.4403	-0.0047	0.0059	0.0020	-0.6133	-0.2029
5	0.02	18.29	-0.6096	-0.0077	-0.2770	0.0127	0.4544	-0.0079	0.0049	0.0016	-0.6201	-0.1984
6	0.02	17.47	-0.5705	-0.0083	-0.2640	0.0146	0.4627	-0.0009	0.0005	0.0002	-0.6110	-0.2223
7	0.02	16.68	-0.5177	-0.0104	-0.2443	0.0202	0.4719	-0.0031	0.0019	0.0007	-0.6128	-0.2152
8	0.02	15.90	-0.4698	-0.0116	-0.2273	0.0247	0.4839	0.0003	-0.0002	-0.0001	-0.6665	-0.3335
9	0.02	15.13	-0.4310	-0.0119	-0.2135	0.0276	0.4954	0.0055	-0.0033	-0.0013	-0.6090	-0.2304
10	0.02	14.33	-0.3845	-0.0115	-0.1922	0.0299	0.4999	0.0024	-0.0014	-0.0005	-0.6041	-0.2085
11	0.02	13.56	-0.3375	-0.0107	-0.1801	0.0317	0.5335	0.0071	-0.0043	-0.0015	-0.6126	-0.2161
12	0.02	12.84	-0.2850	-0.0101	-0.1586	0.0354	0.5563	0.0106	-0.0065	-0.0024	-0.6131	-0.2234
13	0.02	12.03	-0.2413	-0.0098	-0.1408	0.0408	0.5835	0.0067	-0.0041	-0.0015	-0.6118	-0.2190
14	0.02	11.21	-0.1958	-0.0095	-0.1190	0.0488	0.6080	0.0121	-0.0074	-0.0027	-0.6115	-0.2205
15	0.02	10.48	-0.1353	-0.0091	-0.0990	0.0672	0.7316	0.0098	-0.0060	-0.0021	-0.6121	-0.2178
16	0.01	9.64	-0.0958	-0.0088	-0.0799	0.0918	0.8343	0.0091	-0.0056	-0.0020	-0.6153	-0.2162
17	0.01	8.87	-0.0520	-0.0072	-0.0615	0.1384	1.1832	0.0111	-0.0068	-0.0024	-0.6170	-0.2163
18	0.01	8.03	-0.0017	-0.0070	-0.0431	4.1169	25.3332	0.0098	-0.0060	-0.0021	-0.6172	-0.2176
19	0.01	7.26	0.0415	-0.0061	-0.0240	-0.1470	-0.5776	0.0055	-0.0034	-0.0012	-0.6181	-0.2122
20	0.01	6.45	0.0818	-0.0058	-0.0070	-0.0709	-0.0961	0.0077	-0.0047	-0.0016	-0.6168	-0.2122
21	0.01	5.64	0.1311	-0.0063	0.0119	-0.0484	0.0707	0.0052	-0.0032	-0.0011	-0.6249	-0.2052
22	0.01	4.83	0.1731	-0.0074	0.0371	-0.0427	0.2142	0.0049	-0.0030	-0.0011	-0.6223	-0.2178
23	0.01	4.05	0.2182	-0.0074	0.0570	-0.0339	0.2613	0.0040	-0.0024	-0.0009	-0.6124	-0.2168
24	0.01	3.27	0.2789	-0.0080	0.0800	-0.0288	0.2866	0.0030	-0.0018	-0.0007	-0.5999	-0.2335
25	0.01	2.53	0.3302	-0.0090	0.1013	-0.0214	0.3069	0.0021	-0.0013	-0.0005	-0.6189	-0.2382
26	0.01	1.71	0.3909	-0.0101	0.1250	-0.0258	0.3197	0.0021	-0.0013	-0.0005	-0.6189	-0.2382
27	0.01	0.96	0.4334	-0.0113	0.1501	-0.0261	0.3464	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
28	0.01	0.20	0.4884	-0.0120	0.1716	-0.0247	0.3514	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
29	0.01	-0.57	0.5502	-0.0125	0.1938	-0.0227	0.3523	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
30	0.01	-1.40	0.6169	-0.0115	0.2161	-0.0186	0.3502	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
31	0.01	-2.19	0.6720	-0.0118	0.2383	-0.0176	0.3546	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
32	0.01	-3.01	0.7283	-0.0112	0.2590	-0.0154	0.3556	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
33	0.01	-3.81	0.7791	-0.0095	0.2725	-0.0122	0.3498	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
34	0.01	-4.62	0.8337	-0.0081	0.2909	-0.0097	0.3489	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
35	0.01	-5.36	0.8841	-0.0055	0.3032	-0.0062	0.3429	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
36	0.01	-6.19	0.9310	-0.0034	0.3178	-0.0037	0.3414	0.0012	-0.0007	-0.0002	-0.6249	-0.1668
37	0.01	-6.97	0.9895	-0.0024	0.3307	-0.0025	0.3342	0.0007	-0.0004	-0.0002	-0.6427	-0.2382
38	0.01	-7.78	1.0370	-0.0003	0.3446	-0.0003	0.3323	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
39	0.01	-8.56	1.0784	0.0004	0.3568	0.0004	0.3309	0.0006	-0.0003	-0.0002	-0.5832	-0.3335
40	0.01	-9.37	1.1269	0.0008	0.3681	0.0007	0.3266	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
41	0.01	-10.16	1.1761	0.0017	0.3785	0.0014	0.3218	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
42	0.01	-10.93	1.2137	0.0025	0.3876	0.0021	0.3194	0.0	0.0	0.0	0.0	0.0
43	0.0	-11.67	1.2534	0.0059	0.3893	0.0047	0.3106	0.0001	-0.0000	-0.0001	-0.4999	-0.6668
44	0.01	-12.45	1.2634	0.0134	0.3862	0.0106	0.3057	-0.0001	0.0000	0.0001	-0.4999	-0.6668
45	0.01	-13.19	1.2639	0.0224	0.3701	0.0181	0.2929	0.0007	-0.0004	-0.0002	-0.5713	-0.2382
46	0.01	-14.06	1.2788	0.0243	0.3706	0.0190	0.2898	0.0005	-0.0003	-0.0001	-0.5999	-0.2668

583

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		122 0.97		1.7		0.0	B2WOF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.01	-14.85	1.2639	0.0285	0.3523	0.0225	0.2787	-0.0007	0.0004	0.0002	-0.5713	-0.2382	
48	0.01	-15.66	1.2617	0.0312	0.3466	0.0247	0.2747	-0.0006	0.0004	0.0001	-0.6665	-0.1668	
49	0.02	-16.45	1.3015	0.0319	0.3523	0.0245	0.2707	-0.0016	0.0009	0.0004	-0.5936	-0.2293	
50	0.01	-17.30	1.2071	0.0286	0.3228	0.0237	0.2674	-0.0002	0.0001	0.0000	-0.7499	-0.1668	
51	0.01	-18.13	1.1973	0.0229	0.3206	0.0192	0.2677	-0.0001	0.0000	0.0001	-0.4999	-0.6668	
52	0.01	-19.00	1.2112	0.0230	0.3294	0.0190	0.2720	-0.0001	0.0000	0.0001	-0.4999	-0.6668	
53	0.01	-19.76	1.2344	0.0204	0.3343	0.0166	0.2708	-0.0007	0.0004	0.0002	-0.5713	-0.2382	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6 123 1-01 1-7 0-0 B2WOF12 0-0 10 0 10 0 FIXED										
PLINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP	
1	0.02	19.71	-0.0144	0.1831	-3.2360	4.0244	-0.0040	0.0062	-12.7194	
2	0.03	19.34	-0.0693	0.3800	-3.2006	3.9519	-0.0040	0.0098	-5.4837	
3	0.02	18.58	0.0081	0.1066	-3.0014	3.8000	-0.0080	0.0261	13.1679	
4	0.02	17.75	-0.0012	0.1167	-2.7634	3.4939	-0.0050	0.0420	-97.2333	
5	0.03	16.96	-0.0172	0.2061	-2.5677	3.2224	0.0	0.0619	-11.6326	
6	0.02	16.15	-0.0220	0.1998	-2.3958	2.9881	-0.0040	0.0705	-9.0818	
7	0.02	15.39	0.0094	0.0998	-2.1672	2.6392	-0.0030	0.1002	10.6213	
8	0.02	14.61	0.0034	0.1252	-1.9975	2.3726	-0.0070	0.1133	36.8353	
9	0.02	13.83	-0.0125	0.1465	-1.8032	2.0295	-0.0090	0.1358	-11.7200	
10	0.02	13.04	-0.0056	0.0898	-1.6410	1.7365	-0.0090	0.1496	-16.0428	
11	0.02	12.30	-0.0032	0.0915	-1.4324	1.3475	-0.0140	0.1647	-28.5875	
12	0.02	11.51	0.0224	-0.0034	-1.3202	1.1174	-0.0100	0.1808	-0.1500	
13	0.02	10.73	0.0152	0.0527	-1.1592	0.8161	-0.0150	0.1948	3.4684	
14	0.01	9.91	0.0178	-0.0249	-0.9363	0.5035	-0.0100	0.2208	-1.4000	
15	0.02	9.14	0.0252	-0.0273	-0.8014	0.1781	-0.0140	0.2279	-1.0825	
16	0.02	8.31	0.0386	-0.0630	-0.6536	-0.1048	-0.0190	0.2469	-1.6332	
17	0.02	7.52	0.0482	-0.0765	-0.5480	-0.3796	-0.0200	0.2524	-1.5867	
18	0.01	6.72	0.0383	-0.0776	-0.4112	-0.6271	-0.0190	0.2643	-2.0266	
19	0.01	5.93	0.0350	-0.0920	-0.3265	-0.8722	-0.0180	0.2649	-2.6286	
20	0.01	5.10	0.0445	-0.0943	-0.1235	-1.2391	-0.0160	0.2678	-2.1191	
21	0.01	4.32	0.0413	-0.0958	0.0497	-1.5654	-0.0190	0.2800	-2.3201	
22	0.01	3.52	0.0514	-0.1109	0.1550	-1.8798	-0.0160	0.3054	-2.1588	
23	0.01	2.81	0.0611	-0.1635	0.2980	-2.2049	-0.0120	0.3165	-2.6766	
24	0.01	2.02	0.0495	-0.1203	0.4120	-2.5466	-0.0150	0.3264	-2.4303	
25	0.01	1.22	0.0675	-0.1445	0.5571	-2.9717	-0.0150	0.3463	-2.1407	
26	0.01	0.48	0.0473	-0.1242	0.6802	-3.3680	-0.0130	0.3699	-2.6262	
27	0.01	-0.30	0.0558	-0.1541	0.8750	-3.8216	-0.0120	0.3859	-2.7620	
28	0.01	-1.08	0.0665	-0.1831	0.9870	-4.1614	-0.0140	0.4022	-2.7534	
29	0.01	-1.90	0.0573	-0.1622	1.1136	-4.5656	-0.0150	0.4169	-2.8311	
30	0.01	-2.69	0.0752	-0.2013	1.3408	-5.0217	-0.0140	0.4324	-2.6766	
31	0.01	-3.51	0.0799	-0.1728	1.4823	-5.3928	-0.0150	0.4463	-2.1635	
32	0.01	-4.32	0.0631	-0.1613	1.5953	-5.7170	-0.0150	0.4675	-2.5569	
33	0.01	-5.06	0.0551	-0.1461	1.7734	-6.1892	-0.0150	0.4846	-2.6523	
34	0.01	-5.86	0.0613	-0.1908	1.9148	-6.5463	-0.0180	0.5048	-3.1129	
35	0.01	-6.64	0.0660	-0.1974	2.0760	-6.9189	-0.0160	0.5240	-2.9909	
36	0.01	-7.46	0.0663	-0.1828	2.2337	-7.3336	-0.0160	0.5439	-2.7575	
37	0.01	-8.25	0.0645	-0.1983	2.3855	-7.7001	-0.0160	0.5562	-3.0744	
38	0.01	-9.04	0.0642	-0.1849	2.5586	-8.1104	-0.0140	0.5700	-2.8797	
39	0.01	-9.81	0.0801	-0.2031	2.7115	-8.4246	-0.0100	0.5778	-2.5361	
40	0.01	-10.62	0.0691	-0.2487	2.8482	-8.7089	-0.0170	0.5825	-3.5997	
41	0.01	-11.35	0.0696	-0.2284	3.0029	-9.0214	-0.0150	0.5904	-3.2822	
42	0.01	-12.14	0.0706	-0.2258	3.1655	-9.4200	-0.0140	0.5906	-3.1989	
43	0.01	-12.91	0.0896	-0.2754	3.3477	-9.7071	-0.0170	0.5972	-3.0741	
44	0.01	-13.72	0.0837	-0.2661	3.4779	-9.9345	-0.0170	0.6002	-3.1802	
45	0.01	-14.54	0.0880	-0.2462	3.6905	-10.2361	-0.0090	0.6016	-2.7977	
46	0.01	-15.41	0.0933	-0.2646	3.8443	-10.3704	-0.0010	0.5985	-2.8362	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 123 1.01 1.7 0.0 B2WOF12 0.0 10 0 10 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	-16.17	0.0632	-0.2045	3.8837	-10.1605	-0.0170	0.5942	-3.2354
48	0.01	-16.99	0.0776	-0.2256	4.0204	-10.1229	0.0	0.5855	-2.9077
49	0.01	-17.81	0.0886	-0.3210	4.1473	-10.1546	-0.0160	0.5817	-3.6235
50	0.01	-18.70	0.0624	-0.1903	4.3246	-10.2069	-0.0150	0.5883	-3.0506
51	0.01	-19.50	0.0693	-0.2280	4.4280	-10.1557	-0.0280	0.5862	-3.2903

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST 6	PART 123	MACH 1.01	RX10-6 1.7	PHI 0.0	CONF 82WOF12	L 0.0	DEL1 10	DEL2 0	DEL3 10	DEL4 0	TRANSITION FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPI1	YCPI1	CNF2	CH2	CB2	XCPI2	YCPI2
1	0.02	19.71	-0.8719	-0.0182	-0.2117	0.0209	0.2427	0.0820	-0.0004	0.0019	-0.0049	0.0235
2	0.03	19.34	-0.8580	-0.0183	-0.2087	0.0214	0.2433	0.0757	0.0003	-0.0006	0.0040	-0.0076
3	0.02	18.58	-0.6314	-0.0184	-0.2013	0.0222	0.2421	0.0783	0.0004	-0.0001	0.0057	-0.0014
4	0.02	17.75	-0.7943	-0.0187	-0.1890	0.0235	0.2379	0.0731	0.0008	-0.0016	0.0109	-0.0225
5	0.03	16.96	-0.7498	-0.0192	-0.1769	0.0257	0.2360	0.0709	0.0010	-0.0041	0.0148	-0.0575
6	0.02	16.15	-0.7066	-0.0194	-0.1631	0.0274	0.2308	0.0666	0.0007	-0.0026	0.0113	-0.0392
7	0.02	15.39	-0.6526	-0.0187	-0.1472	0.0286	0.2255	0.0716	0.0013	-0.0014	0.0189	-0.0201
8	0.02	14.61	-0.6054	-0.0180	-0.1303	0.0297	0.2153	0.0739	0.0012	-0.0001	0.0169	-0.0010
9	0.02	13.83	-0.5646	-0.0173	-0.1164	0.0306	0.2062	0.0655	0.0010	-0.0049	0.0160	-0.0744
10	0.02	13.04	-0.5040	-0.0170	-0.1002	0.0337	0.1987	0.0668	0.0009	-0.0048	0.0142	-0.0725
11	0.02	12.30	-0.4501	-0.0155	-0.0831	0.0344	0.1846	0.0641	0.0016	-0.0053	0.0250	-0.0833
12	0.02	11.51	-0.4029	-0.0143	-0.0690	0.0356	0.1712	0.0616	0.0010	-0.0062	0.0162	-0.1002
13	0.02	10.73	-0.3642	-0.0138	-0.0515	0.0374	0.1413	0.0678	0.0010	-0.0042	0.0147	-0.0621
14	0.01	9.91	-0.3112	-0.0129	-0.0344	0.0414	0.1106	0.0603	0.0009	-0.0064	0.0158	-0.1063
15	0.02	9.14	-0.2693	-0.0117	-0.0155	0.0434	0.0577	0.0654	0.0013	-0.0055	0.0206	-0.0842
16	0.02	8.31	-0.2195	-0.0109	0.0001	0.0495	-0.0003	0.0655	0.0011	-0.0056	0.0168	-0.0851
17	0.02	7.52	-0.1838	-0.0098	0.0154	0.0533	-0.0835	0.0617	0.0010	-0.0068	0.0170	-0.1109
18	0.01	6.72	-0.1260	-0.0088	0.0280	0.0698	-0.2223	0.0604	0.0007	-0.0068	0.0116	-0.1121
19	0.01	5.93	-0.0774	-0.0085	0.0450	0.1098	-0.5615	0.0528	0.0011	-0.0089	0.0208	-0.1687
20	0.01	5.10	-0.0400	-0.0086	0.0633	0.2162	-1.5618	0.0561	0.0008	-0.0115	0.0151	-0.2051
21	0.01	4.32	0.0141	-0.0094	0.0838	-0.6665	5.9431	0.0501	0.0010	-0.0091	0.0200	-0.1818
22	0.01	3.52	0.0579	-0.0108	0.1025	-0.1874	1.7702	0.0524	0.0011	-0.0078	0.0210	-0.1496
23	0.01	2.81	0.1048	-0.0115	0.1240	-0.1097	1.1834	0.0579	0.0013	-0.0083	0.0224	-0.1435
24	0.01	2.02	0.1595	-0.0123	0.1429	-0.0771	0.8962	0.0476	0.0013	-0.0097	0.0284	-0.2046
25	0.01	1.22	0.2230	-0.0151	0.1672	-0.0677	0.7498	0.0460	0.0013	-0.0086	0.0283	-0.1864
26	0.01	0.48	0.2805	-0.0166	0.1898	-0.0593	0.6764	0.0427	0.0009	-0.0107	0.0211	-0.2499
27	0.01	-0.30	0.3582	-0.0178	0.2134	-0.0498	0.5956	0.0466	0.0009	-0.0104	0.0193	-0.2226
28	0.01	-1.08	0.4059	-0.0188	0.2317	-0.0463	0.5709	0.0452	0.0008	-0.0102	0.0188	-0.2265
29	0.01	-1.90	0.4859	-0.0192	0.2483	-0.0396	0.5110	0.0425	0.0009	-0.0099	0.0212	-0.2338
30	0.01	-2.69	0.5370	-0.0195	0.2668	-0.0363	0.4969	0.0412	0.0011	-0.0105	0.0279	-0.2542
31	0.01	-3.51	0.5984	-0.0191	0.2826	-0.0320	0.4722	0.0412	0.0011	-0.0105	0.0267	-0.2542
32	0.01	-4.32	0.6498	-0.0183	0.2976	-0.0282	0.4580	0.0405	0.0011	-0.0135	0.0284	-0.3335
33	0.01	-5.06	0.6975	-0.0173	0.3166	-0.0249	0.4539	0.0416	0.0011	-0.0126	0.0264	-0.3038
34	0.01	-5.86	0.7619	-0.0171	0.3291	-0.0225	0.4320	0.0443	0.0012	-0.0124	0.0271	-0.2808
35	0.01	-6.64	0.7959	-0.0161	0.3425	-0.0203	0.4308	0.0406	0.0011	-0.0138	0.0271	-0.3392
36	0.01	-7.46	0.8544	-0.0156	0.3561	-0.0183	0.4168	0.0408	0.0011	-0.0145	0.0270	-0.3555
37	0.01	-8.25	0.8979	-0.0156	0.3680	-0.0174	0.4098	0.0382	0.0015	-0.0147	0.0406	-0.3841
38	0.01	-9.04	0.9658	-0.0148	0.3753	-0.0154	0.3927	0.0423	0.0015	-0.0151	0.0355	-0.3571
39	0.01	-9.81	0.9986	-0.0146	0.3881	-0.0147	0.3887	0.0404	0.0006	-0.0121	0.0161	-0.3004
40	0.01	-10.62	1.0424	-0.0146	0.3985	-0.0140	0.3823	0.0398	0.0016	-0.0157	0.0402	-0.3954
41	0.01	-11.35	1.0800	-0.0143	0.4075	-0.0132	0.3773	0.0382	0.0021	-0.0148	0.0563	-0.3867
42	0.01	-12.14	1.1349	-0.0127	0.4145	-0.0112	0.3652	0.0396	0.0020	-0.0150	0.0518	-0.3789
43	0.01	-12.91	1.1691	-0.0120	0.4208	-0.0103	0.3599	0.0362	0.0024	-0.0176	0.0677	-0.4872
44	0.01	-13.72	1.2127	-0.0113	0.4278	-0.0093	0.3528	0.0402	0.0032	-0.0179	0.0796	-0.4454
45	0.01	-14.54	1.2571	-0.0068	0.4283	-0.0054	0.3407	0.0409	0.0042	-0.0157	0.1027	-0.3632
46	0.01	-15.41	1.2565	-0.0013	0.4258	-0.0010	0.3389	0.0419	0.0033	-0.0135	0.0799	-0.3231

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART				MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6				123	1.01	1.7		0.0	BZMOF12	0.0	10	0	10	0	FIXED
PDINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2			
47	0.01	-16.17	1.2393	0.0106	0.4013	0.0086	0.3239	0.0479	0.0099	-0.0143	0.2066	-0.2994			
48	0.01	-16.99	1.2306	0.0123	0.4001	0.0100	0.3252	0.0289	0.0097	-0.0192	0.3373	-0.6633			
49	0.01	-17.81	1.2387	0.0134	0.3982	0.0108	0.3215	0.0517	0.0067	-0.0108	0.1296	-0.2084			
50	0.01	-18.70	1.2530	0.0123	0.4003	0.0098	0.3195	0.0550	-0.0010	-0.0074	-0.0191	-0.1341			
51	0.01	-19.50	1.2506	0.0113	0.3548	0.0091	0.3157	0.0549	-0.0019	-0.0063	-0.0346	-0.1149			

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		123		1.01		1.7	0.0	82M0F12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4		
1	0.02	19.71	-0.6381	-0.0044	-0.2928	0.0069	0.4589	0.0033	-0.0020	-0.0007	-0.6060	-0.2122		
2	0.03	19.34	-0.6344	-0.0047	-0.2531	0.0074	0.4620	0.0077	-0.0047	-0.0017	-0.6103	-0.2252		
3	0.02	18.58	-0.5893	-0.0059	-0.2763	0.0100	0.4689	-0.0030	0.0018	0.0006	-0.6166	-0.2001		
4	0.02	17.75	-0.5411	-0.0066	-0.2641	0.0122	0.4881	0.0009	-0.0005	-0.0002	-0.6110	-0.2223		
5	0.03	16.96	-0.5108	-0.0077	-0.2507	0.0152	0.4908	0.0043	-0.0026	-0.0010	-0.6162	-0.2249		
6	0.02	16.15	-0.4550	-0.0090	-0.2350	0.0199	0.5165	0.0045	-0.0027	-0.0010	-0.6110	-0.2223		
7	0.02	15.39	-0.4091	-0.0089	-0.2182	0.0217	0.5334	0.0048	-0.0029	-0.0011	-0.6041	-0.2293		
8	0.02	14.61	-0.3790	-0.0086	-0.2027	0.0227	0.5347	0.0080	-0.0049	-0.0017	-0.6186	-0.2168		
9	0.02	13.83	-0.3373	-0.0090	-0.1838	0.0267	0.5448	0.0089	-0.0055	-0.0019	-0.6179	-0.2173		
10	0.02	13.04	-0.2740	-0.0082	-0.1685	0.0301	0.6149	0.0107	-0.0066	-0.0023	-0.6167	-0.2182		
11	0.02	12.30	-0.2250	-0.0080	-0.1449	0.0355	0.6443	0.0091	-0.0056	-0.0020	-0.6153	-0.2162		
12	0.02	11.51	-0.1798	-0.0077	-0.1275	0.0428	0.7092	0.0087	-0.0054	-0.0019	-0.6206	-0.2185		
13	0.02	10.73	-0.1407	-0.0072	-0.1115	0.0515	0.7923	0.0107	-0.0066	-0.0023	-0.6167	-0.2182		
14	0.01	9.91	-0.0845	-0.0068	-0.0896	0.0805	1.0610	0.0094	-0.0056	-0.0021	-0.6169	-0.2200		
15	0.02	9.14	-0.0470	-0.0065	-0.0707	0.1393	1.5056	0.0112	-0.0068	-0.0025	-0.6115	-0.2204		
16	0.02	8.31	-0.0080	-0.0060	-0.0548	0.1561	6.8457	0.0106	-0.0065	-0.0023	-0.6178	-0.2140		
17	0.02	7.52	0.0359	-0.0058	-0.0353	-0.1615	-0.9843	0.0102	-0.0062	-0.0022	-0.6126	-0.2158		
18	0.01	6.72	0.0797	-0.0056	-0.0159	-0.0703	-0.2000	0.0097	-0.0059	-0.0022	-0.6133	-0.2235		
19	0.01	5.93	0.1186	-0.0054	-0.0009	-0.0459	-0.0374	0.0052	-0.0032	-0.0012	-0.6153	-0.2245		
20	0.01	5.10	0.1695	-0.0058	0.0227	-0.0342	0.1338	0.0044	-0.0027	-0.0009	-0.6135	-0.2122		
21	0.01	4.32	0.2116	-0.0062	0.0439	-0.0293	0.2075	0.0038	-0.0023	-0.0008	-0.6183	-0.2194		
22	0.01	3.52	0.2568	-0.0074	0.0645	-0.0290	0.2326	0.0038	-0.0023	-0.0008	-0.6052	-0.2194		
23	0.01	2.81	0.3117	-0.0086	0.0873	-0.0277	0.2600	0.0027	-0.0016	-0.0006	-0.6110	-0.2223		
24	0.01	2.02	0.3570	-0.0102	0.1098	-0.0286	0.3075	0.0018	-0.0011	-0.0004	-0.6388	-0.2223		
25	0.01	1.22	0.4116	-0.0111	0.1345	-0.0270	0.3267	0.0014	-0.0008	-0.0003	-0.6070	-0.2382		
26	0.01	0.48	0.4653	-0.0128	0.1614	-0.0275	0.3470	0.0017	-0.0010	-0.0003	-0.6175	-0.1962		
27	0.01	-0.30	0.5341	-0.0134	0.1836	-0.0251	0.3437	0.0011	-0.0006	-0.0002	-0.5908	-0.2122		
28	0.01	-1.08	0.5813	-0.0143	0.2024	-0.0247	0.3482	0.0015	-0.0009	-0.0003	-0.5999	-0.2001		
29	0.01	-1.90	0.6564	-0.0135	0.2225	-0.0206	0.3390	0.0011	-0.0007	-0.0002	-0.6363	-0.2122		
30	0.01	-2.69	0.7032	-0.0135	0.2426	-0.0193	0.3450	0.0007	-0.0004	-0.0002	-0.5713	-0.2382		
31	0.01	-3.51	0.7408	-0.0130	0.2601	-0.0176	0.3512	0.0008	-0.0005	-0.0001	-0.6249	-0.1668		
32	0.01	-4.32	0.8048	-0.0121	0.2784	-0.0151	0.3459	0.0011	-0.0006	-0.0002	-0.5908	-0.2122		
33	0.01	-5.06	0.8618	-0.0108	0.2927	-0.0126	0.3396	0.0008	-0.0005	-0.0001	-0.6249	-0.1668		
34	0.01	-5.86	0.9214	-0.0099	0.3045	-0.0107	0.3305	0.0005	-0.0003	-0.0001	-0.5999	-0.2668		
35	0.01	-6.64	0.9671	-0.0088	0.3196	-0.0091	0.3298	0.0011	-0.0006	-0.0002	-0.5908	-0.2122		
36	0.01	-7.46	1.0172	-0.0076	0.3333	-0.0075	0.3276	0.0006	-0.0003	-0.0001	-0.5832	-0.1668		
37	0.01	-8.25	1.0700	-0.0072	0.3453	-0.0068	0.3227	0.0011	-0.0006	-0.0002	-0.5908	-0.2122		
38	0.01	-9.04	1.1117	-0.0070	0.3577	-0.0063	0.3218	0.0011	-0.0007	-0.0002	-0.6363	-0.2122		
39	0.01	-9.81	1.1503	-0.0064	0.3690	-0.0056	0.3208	0.0001	-0.0000	-0.0001	-0.4999	-0.6668		
40	0.01	-10.62	1.1945	-0.0062	0.3774	-0.0052	0.3160	0.0012	-0.0007	-0.0003	-0.6249	-0.2501		
41	0.01	-11.35	1.2254	-0.0057	0.3869	-0.0047	0.3158	0.0002	-0.0001	-0.0000	-0.7499	-0.1668		
42	0.01	-12.14	1.2695	-0.0040	0.3945	-0.0031	0.3111	-0.0003	0.0002	0.0001	-0.6665	-0.3335		
43	0.01	-12.91	1.3005	-0.0029	0.4126	-0.0022	0.3096	0.0	0.0	0.0	0.0	0.0		
44	0.01	-13.72	1.3427	-0.0015	0.4076	-0.0011	0.3036	-0.0011	0.0007	0.0002	-0.6363	-0.2122		
45	0.01	-14.54	1.3765	0.0001	0.4112	0.0001	0.2987	0.0	0.0	0.0	0.0	0.0		
46	0.01	-15.41	1.4218	0.0029	0.4136	0.0020	0.2905	-0.0006	0.0003	0.0001	-0.5832	-0.1668		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			123	1.01	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	0.01	-16.17	1.4053	0.0106	0.4034	0.0075	0.2870	0.0	0.0	0.0	0.0	0.0	
48	0.01	-16.99	1.4063	0.0171	0.3942	0.0122	0.2803	-0.0010	0.0006	0.0002	-0.5999	-0.1668	
49	0.01	-17.81	1.4140	0.0195	0.3889	0.0138	0.2750	-0.0004	0.0002	0.0001	-0.4999	-0.1668	
50	0.01	-18.70	1.4228	0.0238	0.3850	0.0168	0.2706	0.0002	-0.0001	-0.0000	-0.7499	-0.1668	
51	0.01	-19.50	1.4329	0.0244	0.3858	0.0171	0.2692	-0.0008	0.0005	0.0001	-0.6249	-0.1668	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	124	1.05	1.7	0.0	B2WOF12	0.0	10	0	10	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	19.65	0.0362	-0.0897	-3.2444	4.1952	-0.0050	0.0725	-2.4773		
2	0.01	19.65	0.0439	-0.0974	-3.2044	4.0552	-0.0090	0.0793	-2.2200		
3	0.02	19.33	-0.0004	0.0656	-3.1585	4.1659	-0.0020	0.0612	-163.9000		
4	0.02	18.55	-0.0062	0.1337	-3.0244	3.4132	0.0	0.0499	-21.5613		
5	0.02	17.76	0.0055	0.0543	-2.8378	3.7640	-0.0020	0.1007	9.8727		
6	0.02	16.93	-0.0190	0.1136	-2.5301	3.4521	0.0060	0.1231	-5.9789		
7	0.02	16.15	-0.0098	0.0837	-2.4536	3.1970	0.0050	0.1247	-6.5429		
8	0.02	15.34	-0.0184	0.1357	-2.2406	2.9239	0.0040	0.1387	-7.3783		
9	0.02	14.62	0.0171	0.1010	-1.9860	2.5575	0.0040	0.1693	5.9099		
10	0.02	13.78	-0.0138	0.0983	-1.8564	2.3209	0.0050	0.1817	-7.1246		
11	0.02	13.05	-0.0019	0.0976	-1.6507	2.0230	0.0120	0.2025	-51.3999		
12	0.02	12.27	-0.0202	0.1583	-1.4941	1.6498	0.0140	0.2145	-7.8356		
13	0.02	11.53	0.0121	0.0980	-1.3394	1.3213	0.0120	0.2328	8.1041		
14	0.02	10.70	0.0268	0.0465	-1.1529	1.0042	0.0120	0.2443	1.7343		
15	0.02	9.91	0.0046	0.0686	-0.9878	0.6510	0.0150	0.2616	14.9043		
16	0.02	9.15	0.0272	-0.0121	-0.8595	0.3424	0.0140	0.2760	-0.4441		
17	0.02	8.32	0.0366	-0.0322	-0.6643	0.0292	0.0140	0.2907	-0.8809		
18	0.02	7.54	0.0340	-0.0106	-0.5544	-0.2367	0.0190	0.2977	-0.3118		
19	0.01	6.74	0.0186	-0.0290	-0.3865	-0.5807	0.0190	0.3053	-1.5613		
20	0.02	5.94	0.0216	-0.0048	-0.2772	-0.8288	0.0190	0.3058	0.2204		
21	0.02	5.09	0.0402	-0.0483	-0.1062	-1.2242	0.0110	0.3132	-1.2010		
22	0.01	4.32	0.0274	-0.0544	-0.0368	-1.4633	0.0140	0.3145	-1.9839		
23	0.01	3.57	0.0277	-0.0578	0.1561	-1.8693	0.0170	0.3327	-2.0859		
24	0.01	2.82	0.0402	-0.0983	0.3585	-2.2866	0.0140	0.3494	-2.4448		
25	0.02	2.03	0.0461	-0.0775	0.3596	-2.5421	0.0180	0.3626	-1.6820		
26	0.01	1.22	0.0518	-0.1025	0.5329	-2.9748	0.0170	0.3752	-1.9791		
27	0.02	0.50	0.0568	-0.1005	0.6811	-3.3122	0.0130	0.3892	-1.7697		
28	0.01	-0.28	0.0565	-0.1351	0.8549	-3.7795	0.0150	0.4019	-2.3911		
29	0.01	-1.07	0.0629	-0.1360	1.0287	-4.1986	0.0150	0.4174	-2.1631		
30	0.01	-1.88	0.0595	-0.1403	1.1522	-4.6048	0.0180	0.4281	-2.3580		
31	0.01	-2.68	0.0574	-0.1493	1.3191	-5.0104	0.0160	0.4427	-2.6021		
32	0.01	-3.54	0.0646	-0.1464	1.4229	-5.3896	0.0190	0.4613	-2.2669		
33	0.01	-4.32	0.0779	-0.1800	1.5864	-5.8095	0.0200	0.4740	-2.3114		
34	0.01	-5.10	0.0615	-0.1811	1.7258	-6.1536	0.0160	0.4929	-2.9447		
35	0.01	-5.85	0.0759	-0.2102	1.8787	-6.5516	0.0170	0.5114	-2.7102		
36	0.01	-6.66	0.0753	-0.2164	2.0737	-6.9457	0.0200	0.5342	-2.8741		
37	0.01	-7.46	0.0695	-0.2053	2.1905	-7.2452	0.0180	0.5592	-2.9540		
38	0.01	-8.28	0.0698	-0.2017	2.3618	-7.6634	0.0160	0.5688	-2.8900		
39	0.01	-9.06	0.0789	-0.2134	2.5150	-7.9734	0.0140	0.5907	-2.7054		
40	0.01	-9.86	0.0768	-0.1875	2.6860	-8.2549	0.0130	0.5979	-2.4417		
41	0.01	-10.61	0.0895	-0.2893	2.8178	-8.5704	0.0140	0.5926	-3.2324		
42	0.01	-11.40	0.0903	-0.3004	2.9708	-8.8375	0.0130	0.5958	-3.3269		
43	0.01	-12.15	0.0918	-0.2815	3.1112	-9.1790	0.0120	0.5927	-3.0667		
44	0.01	-12.94	0.0982	-0.3374	3.2883	-9.4269	0.0150	0.5887	-3.4367		
45	0.01	-13.75	0.0969	-0.3166	3.4130	-9.7355	0.0120	0.5905	-3.2679		
46	0.01	-14.59	0.1189	-0.3444	3.5778	-9.8483	0.0130	0.6045	-2.8971		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	124	1.05	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	-15.36	0.1220	-0.3338	3.7814	-10.1103	0.0110	0.6100	-2.7361
48	0.01	-16.18	0.1293	-0.3530	3.9569	-10.3480	0.0110	0.6207	-2.7302
49	0.01	-16.98	0.1165	-0.3241	4.0700	-10.3693	-0.0190	0.6274	-2.7820
50	0.01	-17.88	0.0981	-0.2723	4.2639	-10.5659	-0.0320	0.6364	-2.7761
51	0.01	-18.70	0.1002	-0.3252	4.4424	-10.7428	-0.0360	0.6419	-3.2463
52	0.0	-19.53	0.0989	-0.3564	4.6721	-10.8764	-0.0390	0.6398	-3.6042

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 124 1.05 1.7			0.0	0.2WOF12	0.0	10	0	10	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.01	19.65	-0.8772	-0.0179	-0.2086	0.0205	0.2378	0.0899	0.0002	0.0039	0.0028	0.0429
2	0.01	19.65	-0.8873	-0.0177	-0.2099	0.0199	0.2365	0.0877	0.0003	0.0020	0.0040	0.0231
3	0.02	19.33	-0.8870	-0.0176	-0.2099	0.0198	0.2366	0.0741	0.0011	-0.0026	0.0148	-0.0352
4	0.02	18.55	-0.8509	-0.0179	-0.2006	0.0211	0.2350	0.0741	0.0009	-0.0026	0.0121	-0.0352
5	0.02	17.76	-0.8100	-0.0169	-0.1915	0.0209	0.2364	0.0763	-0.0030	-0.0001	-0.0007	-0.0010
6	0.02	16.93	-0.7699	-0.0158	-0.1800	0.0206	0.2339	0.0720	0.0014	-0.0056	0.0194	-0.0779
7	0.02	16.15	-0.7345	-0.0155	-0.1669	0.0212	0.2273	0.0764	0.0008	-0.0012	0.0105	-0.0163
8	0.02	15.34	-0.6883	-0.0151	-0.1545	0.0219	0.2244	0.0679	0.0006	-0.0044	0.0096	-0.0644
9	0.02	14.62	-0.6216	-0.0142	-0.1413	0.0229	0.2274	0.0715	0.0002	-0.0025	0.0035	-0.0346
10	0.02	13.78	-0.5718	-0.0137	-0.1292	0.0240	0.2260	0.0633	0.0002	-0.0069	0.0039	-0.1091
11	0.02	13.05	-0.5159	-0.0129	-0.1122	0.0250	0.2175	0.0645	0.0003	-0.0068	0.0054	-0.1055
12	0.02	12.27	-0.4607	-0.0123	-0.0940	0.0267	0.2041	0.0623	0.0007	-0.0088	0.0120	-0.1419
13	0.02	11.53	-0.4152	-0.0116	-0.0771	0.0279	0.1856	0.0581	0.0015	-0.0084	0.0267	-0.1453
14	0.02	10.70	-0.3776	-0.0114	-0.0593	0.0303	0.1571	0.0643	0.0009	-0.0069	0.0148	-0.1069
15	0.02	9.91	-0.3196	-0.0112	-0.0398	0.0350	0.1246	0.0537	0.0015	-0.0124	0.0289	-0.2310
16	0.02	9.15	-0.2742	-0.0101	-0.0242	0.0370	0.0881	0.0644	0.0013	-0.0080	0.0210	-0.1249
17	0.02	8.32	-0.2262	-0.0098	-0.0071	0.0433	0.0313	0.0644	0.0014	-0.0078	0.0217	-0.1218
18	0.02	7.54	-0.1705	-0.0087	0.0085	0.0510	-0.0498	0.0509	0.0012	-0.0116	0.0236	-0.2287
19	0.01	6.74	-0.1268	-0.0085	0.0290	0.0670	-0.2291	0.0542	0.0015	-0.0093	0.0286	-0.1723
20	0.02	5.94	-0.0821	-0.0083	0.0428	0.1011	-0.5218	0.0494	0.0017	-0.0111	0.0344	-0.2255
21	0.02	5.09	-0.0355	-0.0084	0.0614	0.2380	-1.7288	0.0531	0.0015	-0.0102	0.0292	-0.1922
22	0.01	4.32	0.0069	-0.0098	0.0815	-1.4273	11.8115	0.0505	0.0008	-0.0098	0.0168	-0.1935
23	0.01	3.57	0.0586	-0.0113	0.1055	-0.1928	1.8008	0.0504	0.0015	-0.0099	0.0307	-0.1965
24	0.01	2.82	0.1048	-0.0118	0.1247	-0.1131	1.1901	0.0507	0.0016	-0.0109	0.0325	-0.2151
25	0.02	2.03	0.1545	-0.0130	0.1434	-0.0841	0.9280	0.0494	0.0017	-0.0111	0.0344	-0.2255
26	0.01	1.22	0.2274	-0.0148	0.1657	-0.0651	0.7290	0.0434	0.0014	-0.0128	0.0323	-0.2958
27	0.02	0.50	0.2708	-0.0158	0.1830	-0.0583	0.6759	0.0468	0.0013	-0.0105	0.0278	-0.2245
28	0.01	-0.28	0.3331	-0.0174	0.2073	-0.0522	0.6222	0.0434	0.0001	-0.0117	0.0035	-0.2705
29	0.01	-1.07	0.3967	-0.0187	0.2265	-0.0471	0.5709	0.0457	0.0003	-0.0103	0.0066	-0.2248
30	0.01	-1.88	0.4697	-0.0195	0.2488	-0.0415	0.5297	0.0446	0.0004	-0.0115	0.0101	-0.2587
31	0.01	-2.68	0.5235	-0.0203	0.2653	-0.0389	0.5068	0.0443	0.0004	-0.0103	0.0090	-0.2334
32	0.01	-3.54	0.5843	-0.0206	0.2824	-0.0350	0.4801	0.0424	0.0007	-0.0130	0.0177	-0.3059
33	0.01	-4.32	0.6293	-0.0204	0.2990	-0.0325	0.4751	0.0441	0.0010	-0.0147	0.0227	-0.3335
34	0.01	-5.10	0.6875	-0.0209	0.3147	-0.0305	0.4577	0.0438	0.0007	-0.0131	0.0160	-0.2992
35	0.01	-5.85	0.7388	-0.0201	0.3298	-0.0273	0.4464	0.0425	0.0002	-0.0128	0.0059	-0.3021
36	0.01	-6.66	0.7949	-0.0199	0.3401	-0.0250	0.4279	0.0413	0.0008	-0.0137	0.0206	-0.3326
37	0.01	-7.46	0.8434	-0.0195	0.3532	-0.0231	0.4188	0.0451	0.0002	-0.0129	0.0044	-0.2854
38	0.01	-8.28	0.8843	-0.0192	0.3691	-0.0218	0.4173	0.0467	0.0007	-0.0141	0.0161	-0.3028
39	0.01	-9.06	0.9415	-0.0185	0.3754	-0.0197	0.3987	0.0467	0.0004	-0.0141	0.0096	-0.3028
40	0.01	-9.86	0.9732	-0.0179	0.3866	-0.0184	0.3966	0.0449	0.0001	-0.0132	0.0034	-0.3000
41	0.01	-10.61	1.0169	-0.0167	0.3915	-0.0164	0.3850	0.0427	0.0004	-0.0137	0.0105	-0.3202
42	0.01	-11.40	1.0569	-0.0168	0.4032	-0.0159	0.3815	0.0474	0.0009	-0.0114	0.0200	-0.2406
43	0.01	-12.15	1.1020	-0.0148	0.4113	-0.0134	0.3732	0.0461	0.0016	-0.0117	0.0358	-0.2546
44	0.01	-12.94	1.1377	-0.0136	0.4141	-0.0119	0.3640	0.0467	0.0015	-0.0140	0.0332	-0.3006
45	0.01	-13.75	1.1829	-0.0127	0.4187	-0.0108	0.3540	0.0473	0.0015	-0.0105	0.0317	-0.2228
46	0.01	-14.59	1.2281	-0.0119	0.4240	-0.0097	0.3453	0.0517	0.0039	-0.0140	0.0754	-0.2703

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6				PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	124	1.05	1.7	0.0	B2h0F12	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	-15.36	1.2542	-0.0116	0.4332	-0.0092	0.3454	0.0540	0.0041	-0.0123	0.0759	-0.2279
48	0.01	-16.18	1.2865	-0.0087	0.4321	-0.0068	0.3359	0.0489	0.0055	-0.0138	0.1125	-0.2823
49	0.01	-16.98	1.2833	-0.0004	0.4230	-0.0004	0.3296	0.0633	0.0035	-0.0064	0.0561	-0.1012
50	0.01	-17.88	1.3051	0.0012	0.4230	0.0010	0.3241	0.0669	0.0041	-0.0059	0.0613	-0.0883
51	0.01	-18.70	1.3279	0.0009	0.4291	0.0007	0.3231	0.0720	0.0033	-0.0052	0.0465	-0.0723
52	0.0	-19.53	1.3423	0.0003	0.4363	0.0002	0.3250	0.0703	0.0012	-0.0029	0.0171	-0.0409

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	124	1.05	1.7	0.0	82WOF12	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	19.65	-0.6100	-0.0061	-0.2904	0.0100	0.4761	-0.0043	0.0026	0.0009	-0.6162	-0.2017
2	0.01	19.65	-0.6055	-0.0065	-0.2865	0.0107	0.4732	-0.0122	0.0075	0.0024	-0.6146	-0.1996
3	0.02	19.33	-0.5993	-0.0065	-0.2852	0.0108	0.4759	-0.0087	0.0053	0.0017	-0.6148	-0.1955
4	0.02	18.55	-0.5788	-0.0053	-0.2793	0.0092	0.4826	-0.0030	0.0018	0.0006	-0.5999	-0.2001
5	0.02	17.76	-0.5393	-0.0047	-0.2710	0.0087	0.5025	-0.0028	-0.0017	-0.0007	-0.6070	-0.2382
6	0.02	16.93	-0.5032	-0.0045	-0.2576	0.0089	0.5116	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
7	0.02	16.15	-0.4610	-0.0049	-0.2435	0.0106	0.5282	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
8	0.02	15.34	-0.4233	-0.0047	-0.2263	0.0112	0.5347	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
9	0.02	14.62	-0.3761	-0.0045	-0.2091	0.0120	0.5560	0.0065	-0.0040	-0.0014	-0.6153	-0.2206
10	0.02	13.78	-0.3161	-0.0039	-0.1970	0.0123	0.6232	0.0060	-0.0037	-0.0013	-0.6166	-0.2168
11	0.02	13.05	-0.2789	-0.0036	-0.1785	0.0131	0.6400	0.0074	-0.0045	-0.0016	-0.6148	-0.2208
12	0.02	12.27	-0.2227	-0.0036	-0.1597	0.0162	0.7171	0.0084	-0.0051	-0.0018	-0.6130	-0.2144
13	0.02	11.53	-0.1778	-0.0039	-0.1376	0.0222	0.7742	0.0069	-0.0042	-0.0015	-0.6158	-0.2175
14	0.02	10.70	-0.1311	-0.0041	-0.1198	0.0316	0.9137	0.0063	-0.0038	-0.0014	-0.6110	-0.2223
15	0.02	9.91	-0.0797	-0.0040	-0.0980	0.0502	1.2303	0.0038	-0.0023	-0.0008	-0.6052	-0.2194
16	0.02	9.15	-0.0376	-0.0043	-0.0776	0.1157	2.0646	0.0029	-0.0018	-0.0006	-0.6206	-0.2185
17	0.02	8.32	0.0117	-0.0044	-0.0588	-0.3803	-5.0258	0.0048	-0.0030	-0.0010	-0.6249	-0.2085
18	0.02	7.54	0.0430	-0.0047	-0.0367	-0.1093	-0.8528	0.0035	-0.0021	-0.0007	-0.6142	-0.2096
19	0.01	6.74	0.0795	-0.0051	-0.0189	-0.0648	-0.2379	0.0032	-0.0019	-0.0007	-0.6093	-0.2293
20	0.02	5.94	0.1382	-0.0054	-0.0066	-0.0391	-0.0481	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
21	0.02	5.09	0.1809	-0.0060	0.0236	-0.0332	0.1303	0.0017	-0.0010	-0.0004	-0.6175	-0.2550
22	0.01	4.32	0.2253	-0.0073	0.0441	-0.0326	0.1956	0.0023	-0.0014	-0.0005	-0.6086	-0.2320
23	0.01	3.57	0.2692	-0.0084	0.0659	-0.0314	0.2448	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
24	0.01	2.82	0.3279	-0.0107	0.0898	-0.0326	0.2738	0.0008	-0.0005	-0.0001	-0.6249	-0.1668
25	0.02	2.03	0.3674	-0.0115	0.1076	-0.0314	0.2929	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
26	0.01	1.22	0.4406	-0.0121	0.1314	-0.0275	0.2983	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
27	0.02	0.50	0.4789	-0.0128	0.1527	-0.0268	0.3188	-0.0001	0.0000	0.0001	-0.4999	-0.6668
28	0.01	-0.28	0.5398	-0.0131	0.1760	-0.0243	0.3260	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
29	0.01	-1.07	0.5822	-0.0139	0.1963	-0.0240	0.3372	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
30	0.01	-1.88	0.6448	-0.0147	0.2166	-0.0228	0.3359	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
31	0.01	-2.68	0.7004	-0.0153	0.2365	-0.0219	0.3376	0.0014	-0.0009	-0.0003	-0.6427	-0.2382
32	0.01	-3.54	0.7554	-0.0156	0.2544	-0.0206	0.3368	0.0018	-0.0011	-0.0004	-0.6110	-0.2223
33	0.01	-4.32	0.8060	-0.0154	0.2739	-0.0191	0.3398	0.0015	-0.0009	-0.0003	-0.5999	-0.2001
34	0.01	-5.10	0.8618	-0.0145	0.2895	-0.0168	0.3359	0.0014	-0.0008	-0.0003	-0.6070	-0.2382
35	0.01	-5.85	0.9135	-0.0133	0.3066	-0.0146	0.3350	0.0020	-0.0012	-0.0004	-0.6249	-0.2168
36	0.01	-6.66	0.9723	-0.0124	0.3154	-0.0128	0.3244	0.0010	-0.0006	-0.0002	-0.6499	-0.1668
37	0.01	-7.46	1.0190	-0.0116	0.3294	-0.0114	0.3232	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
38	0.01	-8.28	1.0599	-0.0111	0.3416	-0.0105	0.3223	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
39	0.01	-9.06	1.1082	-0.0106	0.3514	-0.0096	0.3171	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
40	0.01	-9.86	1.1396	-0.0095	0.3625	-0.0084	0.3181	0.0012	-0.0007	-0.0003	-0.6249	-0.2501
41	0.01	-10.61	1.1891	-0.0086	0.3703	-0.0072	0.3114	0.0016	-0.0010	-0.0004	-0.6249	-0.2293
42	0.01	-11.40	1.2198	-0.0076	0.3804	-0.0062	0.3118	0.0016	-0.0009	-0.0004	-0.5936	-0.2293
43	0.01	-12.15	1.2626	-0.0063	0.3865	-0.0050	0.3061	0.0011	-0.0007	-0.0002	-0.6363	-0.2122
44	0.01	-12.94	1.2906	-0.0047	0.3955	-0.0037	0.3065	0.0009	-0.0005	-0.0002	-0.6110	-0.2223
45	0.01	-13.75	1.3297	-0.0033	0.4012	-0.0025	0.3017	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
46	0.01	-14.59	1.3643	-0.0023	0.4023	-0.0017	0.2949	0.0002	-0.0001	-0.0000	-0.7499	-0.1668

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 124 1.05 1.7 0.0 82WOF12 0.0 10 0 10 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.01	-15.36	1.3825	-0.0010	0.4088	-0.0007	0.2957	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
48	0.01	-16.18	1.4242	-0.0006	0.4125	-0.0004	0.2896	0.0	0.0	0.0	0.0	0.0
49	0.01	-16.98	1.4554	-0.0014	0.4215	-0.0010	0.2896	0.0002	-0.0001	-0.0000	-0.7499	-0.1668
50	0.01	-17.88	1.4846	-0.0025	0.4285	-0.0017	0.2886	0.0003	-0.0002	-0.0001	-0.6665	-0.3335
51	0.01	-18.70	1.5043	-0.0027	0.4353	-0.0018	0.2893	0.0	0.0	0.0	0.0	0.0
52	0.0	-19.53	1.5295	-0.0031	0.4416	-0.0021	0.2887	-0.0001	0.0000	0.0001	-0.4999	-0.6668

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	125	1.10	1.7	0.0	B2WOF12	0.0	10	0	10	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP		
1	0.03	19.53	0.0353	0.1136	-3.2282	3.7176	-0.0050	0.0779	3.2176		
2	0.02	19.29	-0.0057	0.1150	-3.2063	3.6349	-0.0030	0.0722	-20.1719		
3	0.02	18.50	0.0029	0.1179	-3.0843	3.6131	-0.0020	0.0769	40.6689		
4	0.03	17.68	-0.0564	0.3959	-2.8314	3.4601	0.0140	0.0991	-7.0206		
5	0.02	16.86	-0.0383	0.1586	-2.6045	3.2183	0.0030	0.1130	-4.1415		
6	0.03	16.11	-0.0223	0.2952	-2.3979	3.0061	0.0190	0.1237	-13.2386		
7	0.02	15.31	-0.0209	0.1762	-2.1307	2.6760	0.0120	0.1531	-8.4335		
8	0.02	14.58	-0.0025	0.1405	-1.9300	2.3941	0.0060	0.1770	-56.2008		
9	0.03	13.74	-0.0180	0.1902	-1.9210	2.2085	0.0170	0.1706	-10.5667		
10	0.02	13.03	-0.0377	0.1728	-1.7652	1.9713	0.0130	0.1862	-4.5830		
11	0.03	12.23	0.0	0.1460	-1.5201	1.6312	0.0150	0.2088	0.1460		
12	0.02	11.51	-0.0157	0.0750	-1.2703	1.2175	0.0130	0.2338	-4.7758		
13	0.02	10.67	0.0100	0.0630	-1.1979	1.0082	0.0190	0.2436	6.3000		
14	0.02	9.88	0.0026	0.0564	-1.1009	0.8003	0.0150	0.2511	19.3692		
15	0.02	9.07	0.0199	0.0721	-0.8575	0.3436	0.0190	0.2786	3.6251		
16	0.02	8.29	-0.0020	0.0828	-0.7542	0.0860	0.0230	0.2864	-41.4000		
17	0.02	7.46	0.0290	0.0464	-0.5859	-0.2116	0.0210	0.3015	1.6000		
18	0.02	6.71	0.0266	0.0008	-0.4058	-0.5857	0.0140	0.3158	0.0286		
19	0.02	5.87	0.0067	0.0466	-0.3935	-0.7279	0.0230	0.3204	6.9582		
20	0.02	5.08	0.0123	0.0558	-0.1384	-1.1761	0.0190	0.3343	4.5350		
21	0.02	4.27	0.0171	0.0111	-0.0032	-1.5083	0.0150	0.3378	0.6468		
22	0.02	3.51	0.0217	0.0216	0.0765	-1.7889	0.0180	0.3477	0.9963		
23	0.02	2.76	0.0299	-0.0129	0.2841	-2.1535	0.0190	0.3575	-0.4301		
24	0.02	1.98	0.0281	0.0257	0.3592	-2.4086	0.0180	0.3747	0.9132		
25	0.02	1.18	0.0300	0.0130	0.5433	-2.8624	0.0200	0.3930	0.4333		
26	0.02	0.44	0.0242	-0.0249	0.7133	-3.2503	0.0180	0.4079	-1.0281		
27	0.02	-0.30	0.0293	-0.0260	0.8283	-3.5493	0.0160	0.4183	-0.8881		
28	0.02	-1.13	0.0270	-0.0038	0.8979	-3.9457	0.0230	0.4356	-0.1407		
29	0.02	-1.88	0.0277	-0.0028	1.1385	-4.3750	0.0220	0.4502	-0.1004		
30	0.02	-2.73	0.0383	-0.0336	1.2581	-4.7350	0.0190	0.4632	-0.8778		
31	0.01	-3.54	0.0165	-0.0211	1.3496	-5.0391	0.0240	0.4815	-1.2788		
32	0.02	-4.35	0.0348	-0.0547	1.4463	-5.3234	0.0230	0.4957	-1.5724		
33	0.02	-5.07	0.0415	-0.0631	1.7447	-5.4641	0.0210	0.5126	-1.5205		
34	0.02	-5.89	0.0350	-0.0508	1.7954	-6.1730	0.0200	0.5429	-1.4281		
35	0.01	-6.69	0.0201	-0.0281	1.9359	-6.5548	0.0190	0.5482	-1.4000		
36	0.02	-7.53	0.0333	-0.0336	2.0685	-6.8744	0.0180	0.5751	-1.0096		
37	0.01	-8.27	0.0497	-0.1026	2.3391	-7.2582	0.0210	0.5925	-2.0640		
38	0.02	-9.07	0.0573	-0.0732	2.4893	-7.5964	0.0180	0.6054	-1.2178		
39	0.02	-9.88	0.0331	-0.0373	2.6425	-7.8869	0.0140	0.6066	-1.1281		
40	0.01	-10.64	0.0448	-0.0977	2.8379	-8.1975	0.0140	0.6135	-2.1812		
41	0.01	-11.42	0.0553	-0.1284	2.9412	-8.1911	0.0130	0.6236	-2.1722		
42	0.01	-12.20	0.0270	-0.0578	3.1065	-8.7585	0.0150	0.6298	-2.1407		
43	0.01	-12.91	0.0377	-0.1258	3.0535	-8.6733	0.0070	0.6468	-3.5363		
44	0.01	-13.73	0.0605	-0.1511	3.4184	-9.1351	0.0050	0.6304	-2.2122		
45	0.02	-14.55	0.0489	-0.0964	3.4428	-9.2874	0.0020	0.6383	-1.9726		
46	0.01	-15.42	0.0664	-0.1519	3.6792	-9.5003	0.0090	0.6453	-2.2886		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH R110-6									
h 125 1.10 1.7									
PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION									
0.0 82WDF12 0.0 10 0 10 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	0.01	-16.20	0.0536	-0.1530	3.8275	-9.8509	-0.0010	0.6388	-2.8552
48	0.01	-16.99	0.0586	-0.1890	4.0166	-5.8866	0.0080	0.6460	-3.2259
49	0.01	-17.84	0.0705	-0.2187	4.2069	-10.1092	0.0040	0.6312	-3.1021
50	0.01	-18.65	0.0838	-0.2693	4.4779	-10.1166	-0.0070	0.6280	-3.2138
51	0.01	-19.52	0.0692	-0.1869	4.6840	-10.4031	-0.0170	0.6086	-2.7006
52	0.02	-20.24	0.0297	-0.0286	4.7844	-10.4196	-0.0070	0.6234	-0.9623

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	125	1.10	1.7	0.0	B2WUFL2	0.0	10	0	10	0	FIXED	
PCINT	ALPHA	BETA	CNFI	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.03	19.53	-0.8413	-0.0143	-0.2061	0.0170	-0.2449	0.0555	-0.0003	0.0020	-0.0063	0.0359
2	0.02	19.29	-0.8333	-0.0154	-0.2013	0.0185	-0.2416	0.0563	-0.0002	-0.0018	0.0036	-0.0327
3	0.02	18.50	-0.8104	-0.0148	-0.1980	0.0183	-0.2444	0.0551	-0.0005	-0.0015	-0.0100	-0.0279
4	0.03	17.68	-0.7591	-0.0144	-0.1861	0.0190	-0.2452	0.0442	-0.0005	-0.0038	-0.0124	-0.0853
5	0.02	16.86	-0.7300	-0.0133	-0.1769	0.0182	-0.2424	0.0525	-0.0003	-0.0013	-0.0067	-0.0249
6	0.03	16.11	-0.6720	-0.0128	-0.1644	0.0191	-0.2450	0.0486	-0.0003	-0.0010	-0.0072	-0.0207
7	0.02	15.31	-0.6330	-0.0117	-0.1572	0.0185	-0.2484	0.0360	-0.0003	-0.0071	-0.0097	-0.1973
8	0.02	14.58	-0.5926	-0.0115	-0.1424	0.0195	-0.2403	0.0465	-0.0008	-0.0025	-0.0172	-0.0539
9	0.03	13.74	-0.5388	-0.0114	-0.1272	0.0212	-0.2362	0.0421	-0.0005	-0.0058	-0.0131	-0.1371
10	0.02	13.03	-0.4978	-0.0106	-0.1142	0.0214	-0.2294	0.0324	-0.0001	-0.0080	-0.0031	-0.2470
11	0.03	12.23	-0.4377	-0.0098	-0.0949	0.0224	-0.2167	0.0498	-0.0003	-0.0008	-0.0070	-0.0162
12	0.02	11.51	-0.4005	-0.0094	-0.0808	0.0236	-0.2017	0.0394	-0.0001	-0.0057	-0.0025	-0.1439
13	0.02	10.67	-0.3576	-0.0091	-0.0626	0.0256	-0.1750	0.0420	-0.0002	-0.0057	-0.0048	-0.1358
14	0.02	9.88	-0.3051	-0.0090	-0.0426	0.0296	-0.1396	0.0430	0.0	-0.0047	0.0	-0.1086
15	0.02	9.07	-0.2524	-0.0084	-0.0232	0.0335	-0.0919	0.0310	0.0003	-0.0078	0.0113	-0.2507
16	0.02	8.29	-0.2118	-0.0090	-0.0102	0.0427	-0.0480	0.0305	-0.0002	-0.0107	-0.0066	-0.3520
17	0.02	7.46	-0.1687	-0.0081	0.0080	0.0480	-0.0473	0.0293	0.0001	-0.0112	0.0034	-0.3835
18	0.02	6.71	-0.1079	-0.0073	0.0217	0.0676	-0.2015	0.0324	-0.0003	-0.0080	-0.0093	-0.2470
19	0.02	5.87	-0.0596	-0.0077	0.0416	0.1292	-0.6987	0.0350	0.0000	-0.0089	0.0014	-0.2554
20	0.02	5.08	-0.0172	-0.0082	0.0575	0.4767	-3.3412	0.0280	0.0005	-0.0117	0.0179	-0.4168
21	0.02	4.27	0.0308	-0.0093	0.0762	-0.3019	2.4761	0.0329	0.0005	-0.0108	0.0152	-0.3294
22	0.02	3.51	0.0716	-0.0101	0.0969	-0.1410	1.3542	0.0270	0.0007	-0.0129	0.0259	-0.4779
23	0.02	2.76	0.1226	-0.0115	0.1164	-0.0938	0.9499	0.0233	0.0004	-0.0129	0.0193	-0.5552
24	0.02	1.98	0.1737	-0.0120	0.1361	-0.0694	0.7834	0.0241	0.0007	-0.0114	0.0290	-0.4718
25	0.02	1.18	0.2346	-0.0128	0.1562	-0.0546	0.6661	0.0243	0.0008	-0.0121	0.0350	-0.4981
26	0.02	0.44	0.2821	-0.0143	0.1744	-0.0508	0.6199	0.0240	0.0008	-0.0111	0.0354	-0.4626
27	0.02	-0.30	0.3270	-0.0150	0.1929	-0.0458	0.5897	0.0205	0.0009	-0.0123	0.0439	-0.5485
28	0.02	-1.13	0.4041	-0.0160	0.2134	-0.0397	0.5282	0.0250	0.0008	-0.0100	0.0320	-0.5988
29	0.02	-1.88	0.4485	-0.0172	0.2320	-0.0384	0.5173	0.0158	0.0010	-0.0138	0.0664	-0.8756
30	0.02	-2.73	0.5076	-0.0182	0.2459	-0.0359	0.4845	0.0136	0.0008	-0.0148	0.0588	-1.0859
31	0.01	-3.54	0.5752	-0.0185	0.2636	-0.0322	0.4582	0.0101	0.0012	-0.0164	0.1188	-1.6272
32	0.02	-4.35	0.6272	-0.0195	0.2796	-0.0311	0.4458	0.0137	0.0008	-0.0154	0.0620	-1.1266
33	0.02	-5.07	0.6889	-0.0192	0.2960	-0.0279	0.4297	0.0176	0.0008	-0.0158	0.0483	-0.8997
34	0.02	-5.89	0.7322	-0.0190	0.3084	-0.0260	0.4212	0.0177	0.0011	-0.0165	0.0650	-0.9323
35	0.01	-6.69	0.7811	-0.0197	0.3229	-0.0252	0.4135	0.0201	0.0005	-0.0153	0.0249	-0.7613
36	0.02	-7.53	0.8312	-0.0190	0.3331	-0.0228	0.4007	0.0185	0.0002	-0.0140	0.0135	-0.7587
37	0.01	-8.27	0.8847	-0.0185	0.3448	-0.0209	0.3897	0.0130	0.0015	-0.0182	0.1192	-1.3976
38	0.02	-9.07	0.9281	-0.0190	0.3553	-0.0205	0.3828	0.0213	0.0008	-0.0156	0.0376	-0.7325
39	0.02	-9.88	0.9715	-0.0188	0.3662	-0.0194	0.3770	0.0249	-0.0005	-0.0138	-0.0201	-0.5543
40	0.01	-10.64	1.0157	-0.0179	0.3740	-0.0177	0.3683	0.0270	0.0008	-0.0129	0.0315	-0.4779
41	0.01	-11.42	1.0575	-0.0175	0.3801	-0.0165	0.3594	0.0221	0.0015	-0.0139	0.0679	-0.6306
42	0.01	-12.20	1.0949	-0.0169	0.3894	-0.0154	0.3557	0.0201	0.0002	-0.0153	0.0124	-0.7613
43	0.01	-12.91	1.1263	-0.0172	0.3940	-0.0153	0.3498	0.0288	0.0014	-0.0103	0.0503	-0.3578
44	0.01	-13.73	1.1618	-0.0162	0.3996	-0.0140	0.3440	0.0271	0.0008	-0.0084	0.0295	-0.3089
45	0.02	-14.55	1.1944	-0.0161	0.4044	-0.0135	0.3386	0.0268	-0.0008	-0.0059	-0.0317	-0.2190
46	0.01	-15.42	1.2232	-0.0153	0.4102	-0.0125	0.3353	0.0274	-0.0002	-0.0086	-0.0091	-0.3128

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION	
6 125 1.10 1.7				0.0	B2W0F12	0.0	10	0	10	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.01	-16.20	1.2607	-0.0158	0.4177	-0.0126	0.3313	0.0351	-0.0003	-0.0038	-0.0100	-0.1084
48	0.01	-16.99	1.2926	-0.0157	0.4251	-0.0121	0.3289	0.0294	0.0019	-0.0079	0.0663	-0.2688
49	0.01	-17.84	1.3047	-0.0154	0.4309	-0.0118	0.3303	0.0363	0.0004	-0.0040	0.0124	-0.1103
50	0.01	-18.65	1.3337	-0.0151	0.4342	-0.0114	0.3256	0.0428	0.0007	0.0007	0.0164	0.0155
51	0.01	-19.52	1.3570	-0.0139	0.4365	-0.0102	0.3216	0.0485	-0.0040	0.0074	-0.0835	0.1518
52	0.02	-20.24	1.3595	-0.0144	0.4418	-0.0106	0.3250	0.0325	-0.0069	0.0019	-0.2123	0.0594

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.25	1.10	1.7	0.0	0.2	10	0	10	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.03	19.53	-0.5906	-0.0063	-0.2704	0.0107	0.4578	-0.0096	0.0039	0.0019	-0.6145	-0.1980
2	0.02	19.29	-0.5899	-0.0055	-0.2725	0.0094	0.4620	-0.0036	0.0022	0.0007	-0.6110	-0.1946
3	0.02	18.50	-0.5584	-0.0050	-0.2652	0.0090	0.4748	-0.0017	0.0010	0.0003	-0.6175	-0.1962
4	0.03	17.68	-0.5415	-0.0036	-0.2598	0.0067	0.4798	0.0134	-0.0082	-0.0029	-0.6156	-0.2190
5	0.02	16.86	-0.5071	-0.0033	-0.2456	0.0066	0.4847	0.0097	-0.0060	-0.0021	-0.6184	-0.2132
6	0.03	16.11	-0.4756	-0.0032	-0.2322	0.0067	0.4881	0.0126	-0.0077	-0.0028	-0.6150	-0.2223
7	0.02	15.31	-0.4473	-0.0031	-0.2151	0.0074	0.5155	0.0049	-0.0030	-0.0011	-0.6223	-0.2178
8	0.02	14.58	-0.3719	-0.0024	-0.2038	0.0066	0.5480	0.0111	-0.0008	-0.0024	-0.6125	-0.2163
9	0.03	13.74	-0.3342	-0.0026	-0.1835	0.0078	0.5501	0.0096	-0.0059	-0.0021	-0.6145	-0.2189
10	0.02	13.03	-0.2845	-0.0026	-0.1688	0.0091	0.5932	0.0072	-0.0044	-0.0016	-0.6110	-0.2223
11	0.03	12.23	-0.2440	-0.0021	-0.1535	0.0088	0.6308	0.0106	-0.0065	-0.0024	-0.6131	-0.2234
12	0.02	11.51	-0.1943	-0.0023	-0.1328	0.0118	0.6837	0.0087	-0.0053	-0.0019	-0.6148	-0.2185
13	0.02	10.67	-0.1600	-0.0030	-0.1130	0.0187	0.7063	0.0089	-0.0054	-0.0019	-0.6123	-0.2173
14	0.02	9.88	-0.1171	-0.0031	-0.0911	0.0269	0.7781	0.0076	-0.0046	-0.0017	-0.6117	-0.2194
15	0.02	9.07	-0.0546	-0.0033	-0.0703	0.0604	1.2874	0.0070	-0.0043	-0.0016	-0.6142	-0.2239
16	0.02	8.29	-0.0222	-0.0041	-0.0532	0.1869	2.3963	0.0051	-0.0031	-0.0011	-0.6175	-0.2158
17	0.02	7.46	0.0195	-0.0044	-0.0355	-0.2282	-1.8206	0.0058	-0.0035	-0.0013	-0.6120	-0.2185
18	0.02	6.71	0.0704	-0.0053	-0.0114	-0.0753	-0.1625	0.0034	-0.0021	-0.0008	-0.6175	-0.2256
19	0.02	5.87	0.0475	-0.0051	0.0033	-0.0528	0.0337	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
20	0.02	5.08	0.1491	-0.0064	0.0247	-0.0433	0.1655	0.0034	-0.0021	-0.0008	-0.6175	-0.2256
21	0.02	4.27	0.1964	-0.0077	0.0483	-0.0395	0.2461	0.0039	-0.0023	-0.0009	-0.6025	-0.2309
22	0.02	3.51	0.2378	-0.0094	0.0707	-0.0395	0.2975	0.0036	-0.0022	-0.0008	-0.6110	-0.2223
23	0.02	2.76	0.2804	-0.0099	0.0917	-0.0353	0.3272	0.0028	-0.0017	-0.0006	-0.6249	-0.2025
24	0.02	1.98	0.3290	-0.0116	0.1128	-0.0354	0.3429	0.0022	-0.0013	-0.0005	-0.6135	-0.2122
25	0.02	1.18	0.3910	-0.0121	0.1335	-0.0309	0.3414	0.0013	-0.0008	-0.0003	-0.6153	-0.2052
26	0.02	0.44	0.4408	-0.0124	0.1530	-0.0282	0.3471	0.0011	-0.0006	-0.0002	-0.5908	-0.2122
27	0.02	-0.30	0.4909	-0.0126	0.1726	-0.0257	0.3515	0.0011	-0.0006	-0.0002	-0.5908	-0.2122
28	0.02	-1.13	0.5149	-0.0120	0.1921	-0.0274	0.3542	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
29	0.02	-1.88	0.5802	-0.0132	0.2097	-0.0228	0.3615	0.0002	-0.0001	-0.0000	-0.7499	-0.1668
30	0.02	-2.73	0.6455	-0.0133	0.2312	-0.0207	0.3582	0.0004	-0.0002	-0.0001	-0.6249	-0.1668
31	0.01	-3.54	0.6974	-0.0138	0.2475	-0.0199	0.3549	0.0007	-0.0004	-0.0002	-0.6427	-0.2382
32	0.02	-4.35	0.7558	-0.0139	0.2643	-0.0184	0.3498	0.0008	-0.0005	-0.0001	-0.6249	-0.1668
33	0.02	-5.07	0.8079	-0.0137	0.2804	-0.0170	0.3471	0.0006	-0.0004	-0.0001	-0.6665	-0.1668
34	0.02	-5.89	0.8474	-0.0133	0.2975	-0.0157	0.3510	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
35	0.01	-6.69	0.8898	-0.0141	0.3075	-0.0159	0.3456	0.0008	-0.0005	-0.0001	-0.6249	-0.1668
36	0.02	-7.53	0.9366	-0.0122	0.3229	-0.0131	0.3447	-0.0001	0.0000	0.0001	-0.4999	-0.6668
37	0.01	-8.27	0.9855	-0.0128	0.3334	-0.0130	0.3383	0.0010	-0.0006	-0.0002	-0.5999	-0.1668
38	0.02	-9.07	1.0295	-0.0123	0.3412	-0.0119	0.3315	0.0003	-0.0001	-0.0001	-0.4999	-0.3335
39	0.02	-9.88	1.0685	-0.0119	0.3528	-0.0112	0.3302	0.0002	-0.0001	-0.0000	-0.7499	-0.1668
40	0.01	-10.64	1.1071	-0.0111	0.3645	-0.0100	0.3296	0.0004	-0.0002	-0.0001	-0.6249	-0.1668
41	0.01	-11.42	1.1458	-0.0109	0.3710	-0.0096	0.3238	0.0005	-0.0003	-0.0001	-0.5999	-0.2668
42	0.01	-12.20	1.1826	-0.0102	0.3810	-0.0087	0.3221	0.0001	-0.0000	0.0000	-0.4999	-0.3332
43	0.01	-12.91	1.2194	-0.0096	0.3834	-0.0079	0.3144	0.0012	-0.0007	-0.0003	-0.5832	-0.2501
44	0.01	-13.73	1.2508	-0.0094	0.3917	-0.0076	0.3132	-0.0002	0.0001	0.0000	-0.7499	-0.1668
45	0.02	-14.55	1.2805	-0.0085	0.3984	-0.0067	0.3111	0.0	0.0	0.0	0.0	0.0
46	0.01	-15.42	1.3200	-0.0084	0.4032	-0.0064	0.3055	0.0012	-0.0007	-0.0003	-0.5832	-0.2501

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6												
6 125 1.10 1.7 0.0 82WOF12 0.0 10 0 10 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	0.01	-16.20	1.3489	-0.0079	0.4098	-0.0059	0.3038	0.0	0.0	0.0	0.0	0.0
48	0.01	-16.99	1.3698	-0.0086	0.4139	-0.0063	0.3021	-0.0002	0.0001	0.0000	-0.7499	-0.1668
49	0.01	-17.84	1.3844	-0.0088	0.4240	-0.0064	0.3063	0.0008	-0.0005	-0.0001	-0.6249	-0.1668
50	0.01	-18.65	1.4045	-0.0090	0.4285	-0.0064	0.3051	0.0	0.0	0.0	0.0	0.0
51	0.01	-19.52	1.4275	-0.0098	0.4341	-0.0069	0.3041	0.0011	-0.0006	-0.0002	-0.5908	-0.2122
52	0.02	-20.24	1.4380	-0.0101	0.4406	-0.0070	0.3064	0.0010	-0.0006	-0.0002	-0.5999	-0.1668

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	140	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.01	19.89	0.1921	-0.2699	-3.7249	8.1735	-0.0680	0.0583	-1.4052	
2	0.01	19.88	0.1661	-0.2665	-3.7585	8.1045	-0.0560	0.0457	-1.6047	
3	0.02	19.10	0.2095	-0.2523	-3.7270	8.1564	-0.0600	0.0372	-1.2043	
4	0.02	18.31	0.1921	-0.2579	-3.6055	7.9044	-0.0770	0.0443	-1.3427	
5	0.02	17.46	0.1613	-0.1148	-3.4034	7.5973	-0.0750	0.0429	-0.7118	
6	0.02	16.67	0.0914	0.0860	-3.2880	7.6138	-0.0440	0.0364	0.9414	
7	0.02	15.87	0.0692	0.1701	-3.1074	7.2580	-0.0290	0.0314	2.4584	
8	0.02	15.12	0.0369	0.1683	-3.0106	7.1225	-0.0310	0.0309	4.5621	
9	0.02	14.31	0.0363	0.1432	-2.8768	6.9042	-0.0240	0.0307	3.9444	
10	0.01	13.56	-0.0032	0.1875	-2.6506	6.5094	-0.0150	0.0460	-58.5875	
11	0.01	12.77	0.0014	0.1390	-2.5113	6.2734	-0.0070	0.0466	44.3142	
12	0.01	12.00	0.0125	0.1015	-2.3530	5.8748	-0.0040	0.0600	8.1200	
13	0.01	11.18	-0.0046	0.0400	-2.1399	5.4256	-0.0020	0.0639	-9.3070	
14	0.01	10.42	-0.0167	0.0954	-1.9686	5.0478	0.0070	0.0677	-5.7114	
15	0.0	9.60	0.0010	0.0136	-1.8205	4.6484	0.0110	0.0738	13.6000	
16	0.0	8.79	-0.0125	0.0385	-1.7123	4.2429	0.0120	0.0730	-3.0800	
17	0.01	7.96	0.0016	0.0436	-1.4807	3.7638	0.0170	0.0790	27.3500	
18	0.0	7.19	-0.0048	0.0037	-1.2548	3.3706	0.0150	0.0776	-0.7750	
19	0.0	6.43	-0.0176	-0.0054	-1.1450	2.9914	0.0160	0.0757	0.3045	
20	0.0	5.58	-0.0040	0.0116	-1.0173	2.5430	0.0140	0.0743	-2.9000	
21	0.0	4.74	0.0187	-0.0352	-0.8416	2.0621	0.0150	0.0774	-1.8813	
22	0.0	3.97	0.0006	0.0012	-0.7150	1.6859	0.0150	0.0812	1.9333	
23	0.0	3.18	0.0109	-0.0343	-0.5217	1.3083	0.0120	0.0871	-3.1431	
24	0.0	2.44	0.0107	-0.0440	-0.4092	0.9729	0.0150	0.0919	-4.1103	
25	0.0	1.65	0.0084	-0.0172	-0.2658	0.7000	0.0110	0.1008	-2.1143	
26	0.0	0.91	0.0292	-0.0469	-0.1614	0.3539	0.0070	0.1045	-1.6055	
27	0.0	0.16	0.0142	-0.0379	-0.0344	0.1491	0.0080	0.1051	-2.6676	
28	0.0	-0.64	0.0248	-0.0527	0.0743	-0.1790	0.0100	0.1095	-2.1258	
29	0.0	-1.46	0.0229	-0.0501	0.2037	-0.4061	0.0050	0.1122	-2.1860	
30	0.0	-2.26	0.0209	-0.0713	0.3067	-0.7383	0.0080	0.1138	-3.4096	
31	0.0	-3.08	0.0146	-0.0494	0.4135	-1.0179	0.0140	0.1138	-3.3863	
32	0.0	-3.87	0.0268	-0.0785	0.5615	-1.3481	0.0070	0.1087	-2.9298	
33	0.0	-4.64	0.0146	-0.0234	0.7460	-1.7713	0.0060	0.1099	-1.6055	
34	0.0	-5.41	0.0221	-0.0779	0.8611	-2.0894	0.0040	0.1133	-3.5267	
35	0.0	-6.21	0.0110	-0.0214	1.0083	-2.5714	0.0090	0.1160	-1.9455	
36	0.0	-7.02	0.0318	-0.0885	1.1537	-3.0031	0.0080	0.1155	-2.7836	
37	0.0	-7.80	0.0189	-0.0665	1.3489	-3.4033	0.0100	0.1166	-3.5164	
38	0.0	-8.62	0.0275	-0.0635	1.5655	-3.8575	0.0050	0.1104	-2.3091	
39	0.0	-9.38	0.0114	-0.0580	1.6373	-4.1710	0.0030	0.1117	-5.0842	
40	0.0	-10.20	0.0100	-0.0850	1.8858	-4.6448	-0.0010	0.1080	-8.5040	
41	0.0	-10.96	0.0189	-0.1084	2.0070	-5.0346	-0.0050	0.1046	-5.7386	
42	0.0	-11.72	0.0076	-0.0966	2.1574	-5.4191	-0.0120	0.1065	-12.7158	
43	0.0	-12.54	-0.0010	-0.1156	2.3531	-5.8270	-0.0110	0.1026	115.5999	
44	0.0	-13.29	-0.0072	-0.0619	2.5368	-6.2341	-0.0220	0.0903	8.6000	
45	0.0	-14.18	-0.0303	-0.0146	2.7347	-6.6093	-0.0300	0.0887	0.4812	
46	0.0	-14.98	-0.0216	-0.0418	2.8687	-6.8738	-0.0350	0.0830	1.9333	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 140 0.85 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLN	LLL	CAF	XCP	
47	0.0	-15.81	-0.0159	-0.0857	3.0642	-7.2615	-0.0280	0.0801	5.3925	
48	-0.01	-16.61	0.0163	-0.2198	3.1483	-7.2422	0.0090	0.0814	-13.4859	
49	0.0	-17.47	-0.0438	-0.0187	3.2380	-7.3758	-0.0240	0.0733	0.4265	
50	-0.01	-18.33	-0.0451	-0.0279	3.4659	-7.7469	-0.0280	0.0511	0.6177	
51	0.0	-19.20	-0.0103	-0.0676	3.6155	-7.9594	-0.0130	0.0610	6.5612	
52	-0.01	-19.96	-0.0664	-0.0040	3.7913	-8.3014	-0.0230	0.0633	0.0608	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 140 0.85 1.7 0.0 82WOF12 0.0 0 -0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CL1	XCPF1	YCPF1	CNF2	CH2	CL2	XCPF2	YCPF2
1	0.01	19.89	-1.2356	-0.0542	-0.3167	0.0439	0.2563	0.0336	0.0021	0.0078	0.0640	0.2320
2	0.01	19.88	-1.2317	-0.0540	-0.3140	0.0439	0.2550	0.0378	0.0023	0.0116	0.0608	0.3068
3	0.02	19.10	-1.2233	-0.0545	-0.3126	0.0445	0.2556	0.0364	0.0022	0.0102	0.0604	0.2810
4	0.02	18.31	-1.2109	-0.0551	-0.3094	0.0455	0.2555	0.0346	0.0025	0.0104	0.0722	0.3014
5	0.02	17.46	-1.1785	-0.0541	-0.3027	0.0459	0.2569	0.0302	0.0020	0.0079	0.0679	0.2604
6	0.02	16.67	-1.1316	-0.0527	-0.2948	0.0466	0.2605	0.0353	0.0023	0.0077	0.0651	0.2171
7	0.02	15.87	-1.0798	-0.0536	-0.2845	0.0497	0.2635	0.0290	0.0026	0.0054	0.0896	0.1849
8	0.02	15.12	-1.0429	-0.0453	-0.2994	0.0414	0.2739	0.0289	0.0015	0.0063	0.0536	0.2190
9	0.02	14.31	-1.0407	-0.0413	-0.2537	0.0397	0.2822	0.0259	0.0016	0.0046	0.0637	0.1788
10	0.01	13.56	-0.9930	-0.0360	-0.2866	0.0363	0.2886	0.0259	0.0018	0.0046	0.0695	0.1788
11	0.01	12.77	-0.9359	-0.0324	-0.2805	0.0346	0.2997	0.0227	0.0016	0.0038	0.0727	0.1658
12	0.01	12.00	-0.8960	-0.0278	-0.2704	0.0310	0.3017	0.0260	0.0017	0.0040	0.0654	0.1524
13	0.01	11.18	-0.8349	-0.0260	-0.2572	0.0311	0.3081	0.0230	0.0015	0.0022	0.0674	0.0941
14	0.01	10.42	-0.7794	-0.0245	-0.2421	0.0315	0.3106	0.0181	0.0016	0.0012	0.0884	0.0680
15	0.0	9.60	-0.7247	-0.0214	-0.2265	0.0296	0.3125	0.0258	0.0014	0.0045	0.0543	0.1743
16	0.0	8.79	-0.6788	-0.0202	-0.2146	0.0297	0.3161	0.0147	0.0011	0.0015	0.0782	0.1019
17	0.01	7.96	-0.6057	-0.0167	-0.1992	0.0276	0.3289	0.0151	0.0015	-0.0009	0.1026	-0.0575
18	0.0	7.19	-0.5390	-0.0152	-0.1814	0.0283	0.3366	0.0151	0.0014	-0.0009	0.0960	-0.0575
19	0.0	6.43	-0.4814	-0.0147	-0.1617	0.0305	0.3359	0.0136	0.0014	-0.0014	0.1066	-0.1006
20	0.0	5.58	-0.4197	-0.0138	-0.1402	0.0329	0.3339	0.0080	0.0010	0.0011	0.1312	0.1332
21	0.0	4.74	-0.3359	-0.0123	-0.1188	0.0366	0.3538	0.0142	0.0013	0.0034	0.0915	0.2417
22	0.0	3.97	-0.2778	-0.0102	-0.0993	0.0367	0.3573	0.0070	0.0012	-0.0018	0.1714	-0.2525
23	0.0	3.18	-0.2206	-0.0085	-0.0782	0.0388	0.3545	0.0084	0.0015	-0.0007	0.1845	-0.0835
24	0.0	2.44	-0.1622	-0.0069	-0.0594	0.0425	0.3665	0.0080	0.0012	0.0011	0.1500	0.1332
25	0.0	1.65	-0.1078	-0.0056	-0.0425	0.0519	0.3944	0.0121	0.0013	-0.0021	0.1074	-0.1709
26	0.0	0.91	-0.0664	-0.0043	-0.0271	0.0647	0.4085	0.0121	0.0014	-0.0021	0.1157	-0.1709
27	0.0	0.16	-0.0162	-0.0029	-0.0105	0.1790	0.6480	0.0019	0.0010	-0.0016	0.5525	-0.8247
28	0.0	-0.64	0.0470	-0.0018	0.0062	-0.0394	0.1311	0.0070	0.0010	-0.0018	0.1428	-0.2525
29	0.0	-1.46	0.0975	-0.0008	0.0203	-0.0087	0.2081	-0.0027	0.0007	-0.0032	-0.2592	1.1851
30	0.0	-2.26	0.1520	-0.0013	0.0379	-0.0089	0.2497	0.0056	0.0011	-0.0028	0.1964	-0.5061
31	0.0	-3.08	0.2055	-0.0011	0.0603	-0.0054	0.2933	-0.0043	0.0010	-0.0038	-0.2325	0.8914
32	0.0	-3.87	0.2294	0.0003	0.0768	0.0015	0.3350	0.0056	0.0008	-0.0028	0.1518	-0.5061
33	0.0	-4.64	0.3103	0.0022	0.0985	0.0071	0.3174	-0.0026	0.0007	-0.0036	-0.2884	1.3717
34	0.0	-5.41	0.3515	0.0029	0.1168	0.0084	0.3324	-0.0027	0.0007	-0.0032	-0.2592	1.1851
35	0.0	-6.21	0.4368	0.0036	0.1389	0.0084	0.3179	-0.0009	0.0008	-0.0037	-0.8887	4.1110
36	0.0	-7.02	0.4953	0.0039	0.1591	0.0080	0.3213	-0.0042	0.0008	-0.0039	-0.1904	0.9285
37	0.0	-7.80	0.5498	0.0045	0.1793	0.0083	0.3261	-0.0027	0.0007	-0.0032	-0.2592	1.1851
38	0.0	-8.62	0.6093	0.0062	0.1956	0.0102	0.3211	-0.0043	0.0011	-0.0038	-0.2558	0.8914
39	0.0	-9.38	0.6742	0.0087	0.2067	0.0129	0.3067	-0.0077	0.0021	-0.0045	-0.2792	0.5800
40	0.0	-10.20	0.7337	0.0096	0.2248	0.0131	0.3064	0.0069	0.0019	-0.0017	0.2826	-0.2465
41	0.0	-10.96	0.7898	0.0107	0.2346	0.0135	0.2970	0.0068	0.0019	-0.0013	0.2794	-0.1962
42	0.0	-11.72	0.8403	0.0116	0.2504	0.0139	0.2980	0.0162	0.0014	0.0026	0.0864	0.1604
43	0.0	-12.54	0.8868	0.0133	0.2652	0.0150	0.2991	0.0078	0.0024	0.0014	0.3140	0.1794
44	0.0	-13.29	0.9340	0.0166	0.2775	0.0178	0.2971	0.0176	0.0007	0.0045	0.0398	0.2537
45	0.0	-14.18	0.9865	0.0199	0.2846	0.0202	0.2885	0.0218	0.0006	0.0079	0.0274	0.3606
46	0.0	-14.98	1.0215	0.0232	0.2907	0.0227	0.2846	0.0232	-0.0025	0.0120	-0.1077	0.5186

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6												
6 140 0.85 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 82NOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	0.0	-15.81	1.0729	0.0242	0.3018	0.0225	0.2813	0.0275	-0.0036	0.0166	-0.1327	0.6023
48	-0.01	-16.61	1.1165	0.0264	0.3083	0.0236	0.2762	0.0375	-0.0045	0.0180	-0.1213	0.4799
49	0.0	-17.47	1.0940	0.0370	0.2953	0.0339	0.2700	0.0168	-0.0052	0.0123	-0.3124	0.7320
50	-0.01	-18.33	1.1377	0.0352	0.3031	0.0309	0.2664	0.0268	-0.0100	0.0243	-0.3731	0.9078
51	0.0	-19.20	1.1820	0.0349	0.3093	0.0296	0.2617	0.0193	-0.0090	0.0193	-0.4688	1.0016
52	-0.01	-19.96	1.2078	0.0354	0.3190	0.0293	0.2641	0.0288	-0.0087	0.0225	-0.3038	0.7811

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		XX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			140		0.85 1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4		
1	0.01	19.89	-0.9568	-0.0537	-0.3394	0.0562	0.3547	-0.0392	0.0278	-0.0437	-0.7091	1.1138		
2	0.01	19.88	-0.9755	-0.0553	-0.3373	0.0567	0.3457	-0.0312	0.0218	-0.0317	-0.7002	1.0159		
3	0.02	19.10	-0.9719	-0.0545	-0.3353	0.0561	0.3449	-0.0253	0.0235	-0.0396	-0.9307	1.5664		
4	0.02	18.31	-0.9614	-0.0545	-0.3308	0.0567	0.3440	-0.0360	0.0235	-0.0495	-0.6527	1.3749		
5	0.02	17.46	-0.9327	-0.0563	-0.3239	0.0603	0.3473	-0.0710	0.0191	-0.0462	-0.2690	0.6515		
6	0.02	16.67	-0.9572	-0.0455	-0.3443	0.0475	0.3596	-0.0733	0.0123	-0.0450	-0.1685	0.6143		
7	0.02	15.87	-0.9251	-0.0412	-0.3435	0.0446	0.3713	-0.0682	0.0073	-0.0399	-0.1078	0.5854		
8	0.02	15.12	-0.8975	-0.0405	-0.3386	0.0452	0.3772	-0.0381	0.0012	-0.0266	-0.0315	0.6980		
9	0.02	14.31	-0.8655	-0.0364	-0.3317	0.0420	0.3832	-0.0478	-0.0011	-0.0207	0.0241	0.4336		
10	0.01	13.56	-0.8267	-0.0336	-0.3225	0.0407	0.3901	-0.0355	-0.0037	-0.0141	0.1056	0.3980		
11	0.01	12.77	-0.7907	-0.0308	-0.3150	0.0390	0.3985	-0.0141	-0.0062	-0.0085	0.4396	0.6027		
12	0.01	12.00	-0.7486	-0.0291	-0.3013	0.0389	0.4025	-0.0030	-0.0072	0.0014	2.4162	-0.4668		
13	0.01	11.18	-0.6955	-0.0277	-0.2849	0.0399	0.4097	-0.0035	-0.0055	0.0014	1.5711	-0.4096		
14	0.01	10.42	-0.6364	-0.0263	-0.2724	0.0413	0.4281	-0.0094	-0.0056	0.0038	-0.6010	0.4077		
15	0.0	9.60	-0.5691	-0.0244	-0.2551	0.0415	0.4330	0.0217	-0.0042	0.0071	-0.1935	0.3286		
16	0.0	8.79	-0.5454	-0.0228	-0.2460	0.0419	0.4401	0.0212	-0.0044	0.0095	-0.2099	0.4464		
17	0.01	7.96	-0.4808	-0.0202	-0.2219	0.0421	0.4615	0.0347	-0.0036	0.0079	-0.1037	0.2266		
18	0.0	7.19	-0.4278	-0.0188	-0.2005	0.0439	0.4688	0.0346	-0.0031	0.0079	-0.0896	0.2292		
19	0.0	6.43	-0.3823	-0.0183	-0.1816	0.0478	0.4750	0.0345	-0.0027	0.0079	-0.0782	0.2289		
20	0.0	5.68	-0.3225	-0.0166	-0.1570	0.0516	0.4867	0.0431	-0.0018	0.0085	-0.0429	0.1963		
21	0.0	4.74	-0.2573	-0.0147	-0.1347	0.0571	0.5237	0.0334	-0.0012	0.0111	-0.0374	0.3332		
22	0.0	3.97	-0.2123	-0.0119	-0.1133	0.0560	0.5339	0.0254	-0.0007	0.0066	-0.0276	0.2584		
23	0.0	3.18	-0.1448	-0.0101	-0.0962	0.0697	0.6647	0.0255	-0.0007	0.0065	-0.0274	0.2548		
24	0.0	2.44	-0.0943	-0.0080	-0.0778	0.0848	0.8253	0.0254	-0.0006	0.0066	-0.0236	0.2584		
25	0.0	1.65	-0.0583	-0.0067	-0.0562	0.1149	0.9644	0.0118	-0.0005	0.0073	-0.0466	0.6213		
26	0.0	0.91	-0.0144	-0.0056	-0.0338	0.3888	2.3471	0.0247	-0.0001	0.0090	-0.0040	0.3656		
27	0.0	0.16	0.0278	-0.0040	-0.0159	-0.1439	-0.5733	0.0208	-0.0004	0.0070	-0.0216	0.3380		
28	0.0	-0.64	0.0665	-0.0034	-0.0008	-0.0519	-0.0126	0.0118	-0.0005	0.0073	-0.0466	0.6213		
29	0.0	-1.46	0.1151	-0.0008	0.0206	-0.0069	0.1794	0.0072	-0.0005	0.0079	-0.0764	1.0971		
30	0.0	-2.26	0.1603	0.0001	0.0403	0.0009	0.2515	0.0117	-0.0000	0.0074	-0.0043	0.6324		
31	0.0	-3.08	0.1973	0.0024	0.0599	0.0124	0.3038	0.0168	-0.0005	0.0052	-0.0327	0.3094		
32	0.0	-3.87	0.2457	0.0049	0.0824	0.0199	0.3352	0.0341	-0.0002	0.0079	-0.0073	0.2306		
33	0.0	-4.64	0.3096	0.0081	0.1008	0.0261	0.3255	0.0035	-0.0003	0.0044	-0.0857	1.2475		
34	0.0	-5.41	0.3599	0.0106	0.1197	0.0296	0.3327	-0.0067	-0.0002	0.0095	0.0298	-1.4131		
35	0.0	-6.21	0.4197	0.0130	0.1374	0.0310	0.3285	-0.0101	-0.0006	0.0051	0.0643	-0.5084		
36	0.0	-7.02	0.4702	0.0155	0.1651	0.0330	0.3511	-0.0109	-0.0005	0.0065	0.0504	-0.7769		
37	0.0	-7.80	0.5151	0.0176	0.1873	0.0342	0.3637	-0.0103	-0.0006	0.0060	0.0631	-0.5794		
38	0.0	-8.62	0.5614	0.0204	0.2068	0.0363	0.3683	-0.0240	-0.0005	0.0068	0.0208	-0.2835		
39	0.0	-9.38	0.6165	0.0243	0.2177	0.0394	0.3532	-0.0139	-0.0005	0.0024	0.0360	-0.1704		
40	0.0	-10.20	0.6670	0.0263	0.2377	0.0394	0.3564	-0.0139	-0.0005	0.0024	0.0360	-0.1704		
41	0.0	-10.96	0.7142	0.0288	0.2554	0.0404	0.3576	-0.0101	-0.0005	0.0051	0.0544	-0.5084		
42	0.0	-11.72	0.7856	0.0314	0.2695	0.0400	0.3430	-0.0142	-0.0001	0.0032	0.0106	-0.2231		
43	0.0	-12.54	0.8253	0.0333	0.2847	0.0404	0.3450	-0.0139	-0.0005	0.0024	0.0360	-0.1704		
44	0.0	-13.29	0.8790	0.0370	0.2991	0.0421	0.3403	-0.0313	-0.0005	0.0005	0.0176	-0.0150		
45	0.0	-14.18	0.9182	0.0410	0.3086	0.0447	0.3360	-0.0352	-0.0007	-0.0014	0.0199	0.0406		
46	0.0	-14.98	0.9548	0.0466	0.3158	0.0488	0.3307	-0.0404	-0.0006	0.0014	0.0161	-0.0356		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 140 0.85 1.7 0.0 82WOF12 0.0 0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
47	0.0	-15.81	0.9846	0.0521	0.3197	0.0529	0.3247	-0.0352	-0.0007	-0.0014	0.0199	0.0406
48	-0.01	-16.61	0.9710	0.0615	0.2936	0.0633	0.3023	-0.0175	-0.0010	-0.0003	0.0600	0.0189
49	0.0	-17.47	1.0069	0.0601	0.3061	0.0597	0.3040	-0.0349	-0.0010	-0.0023	0.0301	0.0667
50	-0.01	-18.33	1.0369	0.0611	0.3171	0.0589	0.3058	-0.0348	-0.0014	-0.0023	0.0417	0.0660
51	0.0	-19.20	1.0561	0.0630	0.3161	0.0597	0.2993	-0.0529	-0.0012	-0.0018	0.0227	0.0345
52	-0.01	-19.96	1.0678	0.0632	0.3199	0.0592	0.2996	-0.0604	-0.0012	-0.0073	0.0207	0.1213

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	141	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	3.01	19.79	0.3940	-0.7076	-3.4446	7.5482	-0.2350	0.0126	-1.7958
2	3.01	20.07	0.4041	-0.7758	-3.5059	7.3580	-0.2490	0.0443	-1.9195
3	3.01	20.67	0.5230	-1.1502	-3.6047	7.2163	-0.3180	0.0724	-2.1991
4	3.01	20.22	0.4397	-0.9306	-3.6406	7.4236	-0.2810	0.0533	-2.1162
5	3.02	19.36	0.3995	-0.7263	-3.6985	7.5326	-0.2320	0.0221	-1.8179
6	3.02	18.60	0.3795	-0.5672	-3.5740	7.7323	-0.1870	-0.0251	-1.4949
7	3.02	17.71	0.3167	-0.3873	-3.4803	7.7401	-0.1120	-0.0418	-1.2232
8	3.02	16.92	0.3117	-0.3373	-3.3548	7.5023	-0.0960	-0.0363	-1.0824
9	3.03	16.14	0.3643	-0.4310	-3.1266	7.1609	-0.1130	-0.0158	-1.1831
10	3.02	15.38	0.3470	-0.4767	-2.9669	6.8893	-0.0820	-0.0140	-1.3741
11	3.02	14.57	0.3625	-0.5860	-2.8140	6.5423	-0.0570	-0.0115	-1.6149
12	3.02	13.82	0.3113	-0.3888	-2.7179	6.5318	0.0160	-0.0068	-1.2490
13	3.02	13.05	0.3311	-0.5075	-2.5354	6.2172	0.0210	0.0046	-1.5329
14	3.02	12.32	0.3301	-0.4959	-2.3547	5.8192	0.0340	0.0195	-1.4998
15	3.02	11.49	0.3573	-0.6001	-2.2410	5.4591	0.0350	0.0208	-1.6799
16	3.01	10.72	0.3502	-0.6462	-2.0255	5.0625	0.0360	0.0363	-1.8455
17	3.01	9.88	0.3721	-0.7168	-1.8521	4.6336	0.0350	0.0484	-1.9267
18	3.01	9.11	0.4053	-0.8404	-1.6882	4.2672	0.0360	0.0542	-2.0734
19	3.01	8.30	0.4340	-0.9196	-1.5362	3.8904	0.0330	0.0619	-2.1187
20	3.01	7.51	0.4366	-0.9773	-1.3652	3.4441	0.0310	0.0684	-2.2381
21	3.01	6.72	0.4372	-0.9781	-1.1869	3.0185	0.0250	0.0737	-2.2370
22	3.01	5.92	0.4459	-1.0063	-1.0029	2.5589	0.0250	0.0819	-2.2565
23	3.00	5.07	0.4549	-1.0529	-0.8860	2.1483	0.0150	0.0862	-2.3143
24	3.00	4.30	0.4394	-1.0472	-0.7254	1.7505	0.0150	0.0863	-2.3829
25	3.00	3.51	0.4539	-1.0715	-0.6034	1.4387	0.0130	0.0878	-2.3603
26	3.00	2.78	0.4384	-1.0728	-0.4183	1.0706	0.0130	0.0902	-2.4467
27	3.00	1.97	0.4688	-1.1373	-0.3147	0.7835	0.0090	0.0908	-2.4258
28	3.00	1.22	0.4701	-1.1401	-0.2362	0.5386	0.0100	0.0898	-2.4251
29	3.00	0.47	0.4742	-1.1439	-0.0710	0.2414	0.0100	0.0936	-2.4120
30	3.00	-0.27	0.4756	-1.1608	0.0151	-0.0301	0.0110	0.0975	-2.4406
31	3.00	-1.08	0.4604	-1.1236	0.1428	-0.2819	0.0090	0.0992	-2.4402
32	3.00	-1.86	0.4784	-1.1527	0.2340	-0.5125	0.0100	0.0984	-2.4094
33	3.00	-2.69	0.4696	-1.0934	0.4156	-0.8711	0.0060	0.1000	-2.3282
34	3.00	-3.51	0.4533	-1.0356	0.5056	-1.1098	0.0060	0.1034	-2.2844
35	3.00	-4.33	0.4642	-1.0579	0.6481	-1.5443	0.0060	0.1076	-2.2787
36	3.00	-5.05	0.4311	-1.0145	0.7556	-1.8067	0.0040	0.1128	-2.3532
37	3.00	-5.86	0.4491	-1.0247	0.9315	-2.2739	0.0	0.1147	-2.2816
38	3.01	-6.63	0.4461	-0.9866	1.1135	-2.6907	-0.0050	0.1108	-2.2113
39	3.00	-7.47	0.4354	-0.9826	1.2423	-3.1681	-0.0040	0.1150	-2.2565
40	3.01	-8.23	0.4630	-1.0312	1.3862	-3.4855	-0.0110	0.1158	-2.2270
41	3.01	-9.02	0.4230	-0.9282	1.6302	-3.5760	-0.0130	0.1111	-2.1941
42	3.00	-9.79	0.4279	-0.9221	1.7225	-4.2502	-0.0140	0.1078	-2.1547
43	3.01	-10.55	0.3883	-0.7907	1.9394	-4.7929	-0.0210	0.1005	-2.0359
44	3.01	-11.32	0.3953	-0.7935	2.1357	-5.2127	-0.0220	0.0946	-2.0070
45	3.01	-12.07	0.3530	-0.6971	2.2465	-5.5938	-0.0260	0.0948	-1.9751
46	3.01	-12.88	0.3720	-0.7137	2.4472	-6.0177	-0.0300	0.0833	-1.9188

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX 10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION									
6 141 0.85 1.7 0.0 B2WOF 12 0.0 0 0 0 0 FIXED									
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	3.01	-13.64	0.3759	-0.7022	2.6405	-6.3793	-0.0290	0.0700	-1.8682
48	3.01	-14.52	0.3601	-0.7224	2.7423	-6.3999	0.0230	0.0742	-1.9736
49	3.01	-15.35	0.3535	-0.7338	2.8389	-6.6971	0.0310	0.0684	-2.0761
50	3.01	-16.16	0.3269	-0.5706	3.0879	-7.1177	0.0510	0.0589	-1.7457
51	3.01	-16.96	0.3102	-0.4902	3.2497	-7.4762	0.0650	0.0538	-1.5805
52	3.01	-17.86	0.2951	-0.5041	3.3815	-7.6737	0.0630	0.0539	-1.7084
53	3.02	-18.68	0.3563	-0.6017	3.4773	-7.7279	0.1390	0.0662	-1.6891
54	3.00	-19.52	0.4200	-0.9130	3.5860	-7.5581	0.2080	0.1055	-2.1736
55	3.01	-20.27	0.4676	-0.9537	3.7052	-7.7680	0.2560	0.1103	-2.0393

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACF RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 141 0.85 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED												
PGINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	3.01	19.79	-1.2177	-0.0391	-0.3299	0.0321	0.2709	0.2407	0.0045	0.0971	0.0353	0.4034
2	3.01	20.07	-1.2255	-0.0361	-0.3305	0.0294	0.2697	0.2517	0.0088	0.1004	0.0352	0.3988
3	3.01	20.67	-1.2690	-0.0330	-0.3430	0.0260	0.2703	0.2518	0.0090	0.1025	0.0359	0.4071
4	3.01	20.22	-1.2476	-0.0345	-0.3397	0.0277	0.2723	0.2535	0.0091	0.1020	0.0361	0.4022
5	3.02	19.36	-1.2111	-0.0346	-0.3252	0.0286	0.2685	0.2456	0.0091	0.0992	0.0370	0.4041
6	3.02	18.60	-1.1958	-0.0403	-0.3224	0.0337	0.2696	0.2445	0.0094	0.0971	0.0384	0.3970
7	3.02	17.71	-1.1488	-0.0381	-0.3086	0.0332	0.2686	0.2449	0.0092	0.0942	0.0378	0.3847
8	3.02	16.92	-1.1007	-0.0367	-0.2996	0.0334	0.2722	0.2394	0.0088	0.0949	0.0368	0.3963
9	3.03	16.14	-1.0503	-0.0345	-0.2916	0.0328	0.2776	0.2416	0.0089	0.0935	0.0368	0.3870
10	3.02	15.38	-0.9998	-0.0317	-0.2753	0.0317	0.2753	0.2444	0.0090	0.0955	0.0368	0.3909
11	3.02	14.57	-0.9390	-0.0302	-0.2646	0.0322	0.2818	0.2365	0.0084	0.0920	0.0355	0.3890
12	3.02	13.82	-0.8889	-0.0288	-0.2519	0.0324	0.2834	0.2302	0.0085	0.0904	0.0371	0.3927
13	3.02	13.05	-0.8500	-0.0269	-0.2403	0.0316	0.2826	0.2312	0.0086	0.0919	0.0372	0.3977
14	3.02	12.32	-0.7981	-0.0247	-0.2311	0.0310	0.2896	0.2253	0.0078	0.0876	0.0346	0.3887
15	3.02	11.49	-0.7518	-0.0233	-0.2176	0.0310	0.2895	0.2384	0.0078	0.0890	0.0327	0.3735
16	3.01	10.72	-0.7075	-0.0210	-0.2096	0.0297	0.2963	0.2255	0.0070	0.0840	0.0313	0.3727
17	3.01	9.88	-0.6516	-0.0189	-0.1994	0.0291	0.3061	0.2300	0.0074	0.0856	0.0322	0.3723
18	3.01	9.11	-0.6047	-0.0171	-0.1866	0.0283	0.3086	0.2359	0.0078	0.0876	0.0331	0.3714
19	3.01	8.30	-0.5624	-0.0145	-0.1750	0.0258	0.3112	0.2325	0.0074	0.0873	0.0318	0.3754
20	3.01	7.51	-0.5034	-0.0129	-0.1583	0.0257	0.3145	0.2310	0.0075	0.0849	0.0327	0.3674
21	3.01	6.72	-0.4444	-0.0122	-0.1449	0.0274	0.3260	0.2293	0.0068	0.0849	0.0297	0.3703
22	3.01	5.92	-0.3949	-0.0116	-0.1232	0.0294	0.3119	0.2240	0.0067	0.0834	0.0299	0.3725
23	3.00	5.07	-0.3192	-0.0107	-0.1048	0.0335	0.3282	0.2235	0.0065	0.0845	0.0293	0.3780
24	3.00	4.30	-0.2743	-0.0093	-0.0868	0.0339	0.3165	0.2209	0.0064	0.0809	0.0290	0.3663
25	3.00	3.51	-0.2160	-0.0076	-0.0705	0.0354	0.3263	0.2141	0.0063	0.0814	0.0294	0.3804
26	3.00	2.78	-0.1664	-0.0056	-0.0531	0.0336	0.3194	0.2102	0.0060	0.0764	0.0285	0.3637
27	3.00	1.97	-0.1248	-0.0043	-0.0402	0.0348	0.3220	0.2071	0.0064	0.0753	0.0309	0.3636
28	3.00	1.22	-0.0841	-0.0036	-0.0243	0.0434	0.2892	0.2017	0.0067	0.0724	0.0332	0.3590
29	3.00	0.47	-0.0389	-0.0033	-0.0072	0.0861	0.1841	0.1923	0.0062	0.0726	0.0322	0.3774
30	3.00	-0.27	0.0163	-0.0033	0.0043	-0.2024	0.2657	0.1900	0.0061	0.0689	0.0321	0.3627
31	3.00	-1.08	0.0577	-0.0034	0.0203	-0.0589	0.3523	0.1808	0.0058	0.0661	0.0324	0.3658
32	3.00	-1.86	0.0958	-0.0035	0.0315	-0.0370	0.3290	0.1749	0.0058	0.0647	0.0332	0.3698
33	3.00	-2.69	0.1372	-0.0022	0.0494	-0.0160	0.3638	0.1608	0.0049	0.0601	0.0305	0.3736
34	3.00	-3.51	0.1711	-0.0016	0.0608	-0.0096	0.3554	0.1488	0.0035	0.0553	0.0235	0.3715
35	3.00	-4.33	0.2259	-0.0006	0.0785	-0.0029	0.3474	0.1474	0.0024	0.0546	0.0166	0.3705
36	3.00	-5.05	0.2759	0.0006	0.0982	0.0024	0.3560	0.1397	0.0000	0.0526	0.0004	0.3769
37	3.00	-5.86	0.3478	0.0009	0.1186	0.0027	0.3410	0.1387	-0.0035	0.0521	-0.0256	0.3758
38	3.01	-6.63	0.3883	0.0011	0.1369	0.0028	0.3525	0.1355	-0.0063	0.0522	-0.0469	0.3856
39	3.00	-7.47	0.4558	0.0013	0.1553	0.0029	0.3407	0.1244	-0.0103	0.0512	-0.0832	0.4120
40	3.01	-8.23	0.4922	0.0016	0.1700	0.0032	0.3454	0.1228	-0.0137	0.0522	-0.1115	0.4252
41	3.01	-9.02	0.5468	0.0035	0.1867	0.0064	0.3414	0.1084	-0.0177	0.0510	-0.1633	0.4707
42	3.00	-9.79	0.5893	0.0047	0.1972	0.0081	0.3346	0.0923	-0.0208	0.0493	-0.2259	0.5347
43	3.01	-10.55	0.6443	0.0070	0.2115	0.0109	0.3282	0.0849	-0.0254	0.0475	-0.2991	0.5594
44	3.01	-11.32	0.6965	0.0086	0.2196	0.0124	0.3153	0.0742	-0.0303	0.0458	-0.4090	0.6176
45	3.01	-12.07	0.7392	0.0103	0.2300	0.0140	0.3112	0.0600	-0.0337	0.0435	-0.5616	0.7249
46	3.01	-12.88	0.7815	0.0113	0.2446	0.0145	0.3130	0.0584	-0.0376	0.0455	-0.6446	0.7784

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RXIO-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 141 0.85 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED												
PGINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	3.01	-13.64	0.8330	0.0129	0.2541	0.0155	0.3050	0.0442	-0.0431	0.0440	-0.9761	0.9961
48	3.01	-14.52	0.8832	0.0137	0.2715	0.0155	0.3074	0.0443	-0.0487	0.0470	-1.0991	1.0601
49	3.01	-15.35	0.9224	0.0144	0.2755	0.0157	0.2986	0.0384	-0.0512	0.0445	-1.3331	1.1587
50	3.01	-16.16	0.9864	0.0165	0.2905	0.0168	0.2945	0.0151	-0.0550	0.0371	-3.6450	2.4590
51	3.01	-16.96	1.0397	0.0194	0.3036	0.0187	0.2920	0.0048	-0.0586	0.0396	-12.2166	8.2499
52	3.01	-17.86	1.0736	0.0191	0.3120	0.0178	0.2907	0.0080	-0.0630	0.0427	-7.8736	5.3332
53	3.02	-18.68	1.1224	0.0260	0.3221	0.0232	0.2870	-0.0326	-0.0555	0.0153	1.7021	-0.4705
54	3.00	-19.52	1.1439	0.0188	0.3313	0.0164	0.2896	-0.0124	-0.0595	0.0258	4.8016	-2.0781
55	3.01	-20.27	1.1832	0.0201	0.3403	0.0170	0.2876	-0.0415	-0.0573	0.0179	1.3805	-0.4306

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST. PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	141	0.85 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	3.01	19.79	-0.8515	-0.0530	-0.2865	0.0623	0.3365	-0.0509	-0.0506	0.0210	0.9949	-0.4133
2	3.01	20.07	-0.8065	-0.0515	-0.2730	0.0638	0.3385	-0.0385	-0.0535	0.0292	1.3907	-0.7577
3	3.01	20.67	-0.7002	-0.0366	-0.2408	0.0523	0.3439	-0.0182	-0.0548	0.0396	3.0105	-2.1778
4	3.01	20.22	-0.7179	-0.0412	-0.2507	0.0574	0.3492	-0.0267	-0.0547	0.0374	2.0502	-1.4009
5	3.02	19.36	-0.8394	-0.0519	-0.2788	0.0619	0.3321	-0.0524	-0.0558	0.0325	1.0647	-0.6210
6	3.02	18.60	-0.9311	-0.0581	-0.3140	0.0624	0.3372	-0.0676	-0.0479	0.0133	0.7092	-0.1964
7	3.02	17.71	-0.9965	-0.0604	-0.3363	0.0606	0.3374	-0.0595	-0.0525	0.0213	0.8830	-0.3575
8	3.02	16.92	-0.9539	-0.0580	-0.3408	0.0608	0.3370	-0.0673	-0.0495	0.0142	0.7354	-0.2106
9	3.03	16.14	-0.9281	-0.0551	-0.3327	0.0594	0.3384	-0.0814	-0.0476	0.0149	0.5853	-0.1828
10	3.02	15.38	-0.8985	-0.0539	-0.3301	0.0600	0.3674	-0.0339	-0.0513	0.0262	1.5145	-0.7730
11	3.02	14.57	-0.8685	-0.0562	-0.3297	0.0647	0.3796	-0.0184	-0.0495	0.0347	2.6897	-1.8842
12	3.02	13.82	-0.9201	-0.0429	-0.3556	0.0467	0.3865	0.0021	-0.0488	0.0426	-23.2578	20.2856
13	3.02	13.05	-0.8747	-0.0382	-0.3465	0.0437	0.3961	0.0185	-0.0458	0.0461	-2.4779	2.4900
14	3.02	12.32	-0.8213	-0.0358	-0.3311	0.0436	0.4032	0.0474	-0.0422	0.0529	-0.8912	1.1159
15	3.02	11.49	-0.7614	-0.0332	-0.3208	0.0437	0.4213	0.0540	-0.0385	0.0590	-0.7138	1.0925
16	3.01	10.72	-0.6966	-0.0303	-0.3007	0.0438	0.4317	0.0745	-0.0328	0.0603	-0.4402	0.8097
17	3.01	9.88	-0.6512	-0.0279	-0.2871	0.0429	0.4408	0.0955	-0.0289	0.0616	-0.3031	0.6453
18	3.01	9.11	-0.5852	-0.0256	-0.2715	0.0437	0.4639	0.1163	-0.0234	0.0620	-0.2016	0.5336
19	3.01	8.30	-0.5291	-0.0216	-0.2537	0.0409	0.4795	0.1403	-0.0174	0.0669	-0.1244	0.4772
20	3.01	7.51	-0.4672	-0.0197	-0.2314	0.0421	0.4952	0.1334	-0.0132	0.0722	-0.0993	0.5416
21	3.01	6.72	-0.4076	-0.0193	-0.2066	0.0475	0.5069	0.1420	-0.0099	0.0695	-0.0697	0.4896
22	3.01	5.92	-0.3492	-0.0176	-0.1855	0.0505	0.5310	0.1450	-0.0061	0.0704	-0.0424	0.4856
23	3.00	5.07	-0.2740	-0.0157	-0.1577	0.0575	0.5756	0.1439	-0.0023	0.0703	-0.0160	0.4889
24	3.00	4.30	-0.2168	-0.0130	-0.1362	0.0602	0.6284	0.1433	-0.0002	0.0703	-0.0014	0.4909
25	3.00	3.51	-0.1715	-0.0111	-0.1165	0.0650	0.6796	0.1517	0.0012	0.0701	0.0082	0.4624
26	3.00	2.78	-0.1116	-0.0085	-0.0922	0.0762	0.8260	0.1642	0.0023	0.0718	0.0143	0.4374
27	3.00	1.97	-0.0641	-0.0069	-0.0687	0.1084	1.0727	0.1672	0.0034	0.0761	0.0203	0.4552
28	3.00	1.22	-0.0237	-0.0058	-0.0487	0.2468	2.0547	0.1720	0.0030	0.0782	0.0177	0.4547
29	3.00	0.47	0.0336	-0.0046	-0.0279	-0.1384	-0.8305	0.1762	0.0035	0.0812	0.0199	0.4609
30	3.00	-0.27	0.0864	-0.0032	-0.0064	-0.0370	-0.0742	0.1934	0.0041	0.0841	0.0212	0.4351
31	3.00	-1.08	0.1204	-0.0018	0.0103	-0.0154	0.0857	0.1719	0.0029	0.0836	0.0169	0.4862
32	3.00	-1.86	0.1696	-0.0006	0.0312	-0.0038	0.1840	0.1944	0.0038	0.0845	0.0198	0.4346
33	3.00	-2.69	0.2257	0.0019	0.0554	0.0086	0.2455	0.1807	0.0033	0.0861	0.0185	0.4765
34	3.00	-3.51	0.2804	0.0041	0.0749	0.0148	0.2669	0.1901	0.0035	0.0859	0.0186	0.4521
35	3.00	-4.33	0.3302	0.0073	0.0956	0.0222	0.2896	0.1845	0.0034	0.0906	0.0187	0.4909
36	3.00	-5.05	0.3779	0.0107	0.1207	0.0283	0.3195	0.1809	0.0039	0.0863	0.0216	0.4769
37	3.00	-5.86	0.4344	0.0133	0.1450	0.0307	0.3337	0.1949	0.0035	0.0846	0.0180	0.4343
38	3.01	-6.63	0.4957	0.0154	0.1657	0.0311	0.3342	0.1904	0.0039	0.0825	0.0205	0.4335
39	3.00	-7.47	0.5550	0.0177	0.1917	0.0319	0.3455	0.1841	0.0034	0.0903	0.0187	0.4907
40	3.01	-8.23	0.6157	0.0200	0.2132	0.0325	0.3462	0.1877	0.0050	0.0897	0.0269	0.4761
41	3.01	-9.02	0.6678	0.0240	0.2292	0.0360	0.3432	0.1754	0.0038	0.0863	0.0219	0.4923
42	3.00	-9.79	0.7187	0.0271	0.2480	0.0377	0.3450	0.1752	0.0038	0.0872	0.0220	0.4976
43	3.01	-10.55	0.7839	0.0305	0.2649	0.0390	0.3379	0.1530	0.0039	0.0858	0.0255	0.5607
44	3.01	-11.32	0.8398	0.0338	0.2833	0.0402	0.3374	0.1662	0.0038	0.0874	0.0232	0.5258
45	3.01	-12.07	0.9011	0.0368	0.2986	0.0409	0.3313	0.1476	0.0042	0.0896	0.0288	0.6069
46	3.01	-12.88	0.9496	0.0399	0.3154	0.0421	0.3322	0.1523	0.0042	0.0890	0.0279	0.5847

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 141 0.05 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 B2WOF12 0.0 0 0 0 0 FIXED												
PUNT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCFF3	CNF4	CH4	CB4	XCFF4	YCFF4
47	3.01	-13.04	0.9906	0.0443	0.3264	0.0444	0.3275	0.1523	0.0041	0.0691	0.0269	0.5853
48	3.01	-14.52	0.9536	0.0562	0.2930	0.0569	0.3072	0.1400	0.0042	0.0841	0.0300	0.6011
49	3.01	-15.35	0.9905	0.0565	0.3044	0.0570	0.3073	0.1484	0.0039	0.0871	0.0263	0.5873
50	3.01	-16.16	1.0395	0.0502	0.3095	0.0560	0.2977	0.1392	0.0043	0.0875	0.0309	0.6285
51	3.01	-16.96	1.0733	0.0641	0.3095	0.0597	0.2884	0.1453	0.0034	0.0830	0.0237	0.5713
52	3.01	-17.86	1.0842	0.0640	0.3133	0.0590	0.2890	0.1307	0.0039	0.0870	0.0298	0.6660
53	3.02	-18.68	1.0776	0.0624	0.3011	0.0579	0.2794	0.1395	0.0041	0.0877	0.0297	0.6266
54	3.00	-19.52	0.9702	0.0580	0.2612	0.0598	0.2692	0.1483	0.0041	0.0900	0.0280	0.6070
55	3.01	-20.27	0.9145	0.0510	0.2498	0.0557	0.2732	0.1530	0.0042	0.0895	0.0278	0.5848

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	142	0.85	1.7	0.0	82W0-12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	6.04	19.76	0.9770	-1.8457	-3.5146	6.8472	-0.3300	0.0539	-1.8892		
2	6.04	19.77	0.9909	-1.8065	-3.4927	6.9016	-0.3250	0.0442	-1.8240		
3	6.04	19.47	0.9900	-1.7219	-3.4064	6.9266	-0.3160	0.0285	-1.7394		
4	6.04	18.69	0.8861	-1.6485	-3.4220	6.9305	-0.2640	0.0203	-1.8604		
5	6.03	17.84	0.8489	-1.5284	-3.4013	7.0315	-0.2300	0.0013	-1.8005		
6	6.05	17.05	0.8267	-1.3053	-3.3512	7.2163	-0.1790	-0.0351	-1.5790		
7	6.04	16.25	0.8013	-1.3308	-3.1974	7.0330	-0.0960	-0.0380	-1.6608		
8	6.04	15.49	0.8541	-1.4977	-2.9494	6.7158	-0.0930	-0.0366	-1.7535		
9	6.04	14.72	0.8813	-1.6047	-2.8006	6.3656	-0.0760	-0.0262	-1.8209		
10	6.03	13.94	0.9117	-1.7793	-2.6460	6.0430	-0.0440	-0.0195	-1.9517		
11	6.04	13.16	0.8681	-1.5773	-2.5429	6.0017	0.0030	-0.0168	-1.8170		
12	6.02	12.41	0.8701	-1.7421	-2.3598	5.6294	0.0280	-0.0051	-2.0022		
13	6.02	11.63	0.8830	-1.8261	-2.2135	5.2286	0.0200	0.0081	-2.0681		
14	6.02	10.87	0.8979	-1.8770	-2.0461	4.8833	0.0270	0.0169	-2.0904		
15	6.01	10.02	0.9238	-2.0032	-1.8539	4.5341	0.0280	0.0326	-2.1685		
16	6.01	9.27	0.9107	-2.0708	-1.6895	4.1740	0.0310	0.0451	-2.2740		
17	6.01	8.44	0.9450	-2.1629	-1.5420	3.7916	0.0310	0.0555	-2.2888		
18	6.00	7.65	0.9530	-2.2250	-1.4151	3.4030	0.0250	0.0637	-2.3348		
19	6.00	6.86	0.9621	-2.2948	-1.2562	2.9826	0.0220	0.0714	-2.3852		
20	6.00	6.08	0.9934	-2.3706	-1.0781	2.5641	0.0150	0.0771	-2.3864		
21	6.00	5.22	0.9708	-2.3621	-0.9084	2.1286	0.0140	0.0823	-2.4134		
22	6.00	4.45	0.9933	-2.3944	-0.7742	1.7948	0.0090	0.0847	-2.4107		
23	5.99	3.67	1.0027	-2.4436	-0.6131	1.4873	0.0080	0.0829	-2.4371		
24	5.99	2.96	1.0038	-2.5031	-0.5194	1.1961	0.0060	0.0891	-2.4937		
25	5.98	2.14	1.0045	-2.5151	-0.3990	0.9146	0.0030	0.0933	-2.5039		
26	5.98	1.38	1.0140	-2.5344	-0.2357	0.6029	0.0	0.0988	-2.4995		
27	5.98	0.64	1.0170	-2.5506	-0.0972	0.3170	0.0100	0.1039	-2.5081		
28	5.98	-0.10	1.0100	-2.5238	-0.0196	0.0824	0.0110	0.1033	-2.4989		
29	5.98	-0.94	0.9838	-2.4911	0.0927	-0.1918	0.0170	0.1034	-2.5322		
30	5.98	-1.70	1.0078	-2.5557	0.2052	-0.4502	0.0200	0.1042	-2.5360		
31	5.99	-2.51	1.0063	-2.4866	0.3353	-0.7473	0.0190	0.1028	-2.4711		
32	5.99	-3.31	1.0027	-2.4916	0.4484	-1.0028	0.0160	0.1040	-2.4850		
33	5.99	-4.15	0.9663	-2.3656	0.6025	-1.3915	0.0120	0.1078	-2.4482		
34	5.99	-4.88	0.9741	-2.4156	0.7851	-1.6851	0.0120	0.1086	-2.4799		
35	5.99	-5.66	0.9791	-2.3516	0.8467	-2.0173	0.0110	0.1052	-2.4018		
36	5.99	-6.44	0.9381	-2.2322	1.0376	-2.5264	0.0050	0.1046	-2.3795		
37	6.00	-7.29	0.9597	-2.2194	1.1667	-2.8803	0.0040	0.0988	-2.3127		
38	5.99	-8.04	0.9253	-2.1473	1.3657	-3.2648	0.0070	0.0951	-2.3207		
39	6.00	-8.85	0.9396	-2.1263	1.5339	-3.6793	0.0	0.0908	-2.2630		
40	6.00	-9.61	0.9718	-2.1364	1.6814	-4.0447	-0.0020	0.0806	-2.1904		
41	6.00	-10.37	0.9195	-1.9932	1.8170	-4.3765	-0.0020	0.0778	-2.1677		
42	6.00	-11.15	0.9055	-1.9436	2.0210	-4.6362	-0.0010	0.0696	-2.1465		
43	6.00	-11.89	0.9131	-1.9582	2.1982	-5.2002	-0.0030	0.0646	-2.1446		
44	6.01	-12.70	0.8680	-1.7551	2.3890	-5.7183	-0.0130	0.0585	-2.0220		
45	6.01	-13.46	0.8594	-1.8131	2.4685	-5.8366	0.0250	0.0594	-2.1097		
46	6.01	-14.32	0.8551	-1.7480	2.6645	-6.1319	0.0440	0.0626	-2.0443		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 142 0.85 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	6.01	-15.14	0.8273	-1.6261	2.8149	-6.5226	0.0580	0.0580	-1.9656	
48	6.01	-15.95	0.8373	-1.6851	2.9880	-6.7389	0.0780	0.0538	-2.0126	
49	6.01	-16.75	0.7879	-1.5220	3.1300	-7.0816	0.0770	0.0600	-1.9317	
50	6.01	-17.60	0.8318	-1.6584	3.1823	-6.9849	0.1530	0.0858	-1.9938	
51	6.00	-18.44	0.9753	-2.2203	3.1809	-6.5000	0.2750	0.1514	-2.2766	
52	5.99	-19.29	1.0674	-2.6092	3.1627	-6.2175	0.3440	0.1856	-2.4445	
53	5.98	-20.06	1.0643	-2.6838	3.3320	-6.5175	0.3430	0.1639	-2.5218	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	142	0.85	1.7	0.0	0.240F12	0.0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	C01	XCPF1	YCPF1	CNF2	CH2	C02	XCPF2	YCPF2
1	6.04	19.76	-1.1104	-0.0188	-0.2490	0.0170	0.2693	0.5039	0.0178	0.1897	0.0353	0.3765
2	6.04	19.77	-1.0977	-0.0167	-0.3001	0.0152	0.2734	0.5142	0.0179	0.1918	0.0348	0.3731
3	6.04	19.47	-1.0979	-0.0203	-0.2965	0.0185	0.2701	0.5043	0.0188	0.1868	0.0374	0.3705
4	6.04	18.69	-1.0720	-0.0181	-0.2924	0.0169	0.2728	0.4942	0.0182	0.1867	0.0368	0.3777
5	6.03	17.84	-1.0380	-0.0193	-0.2869	0.0186	0.2764	0.4994	0.0179	0.1864	0.0358	0.3733
6	6.03	17.05	-1.0065	-0.0260	-0.2740	0.0258	0.2722	0.4994	0.0180	0.1864	0.0361	0.3733
7	6.04	16.25	-0.9555	-0.0218	-0.2611	0.0228	0.2733	0.4900	0.0175	0.1828	0.0358	0.3730
8	6.04	15.49	-0.9123	-0.0211	-0.2535	0.0231	0.2779	0.4949	0.0179	0.1835	0.0363	0.3708
9	6.04	14.72	-0.8727	-0.0192	-0.2433	0.0220	0.2788	0.4910	0.0169	0.1821	0.0345	0.3709
10	6.03	13.94	-0.8298	-0.0161	-0.2299	0.0195	0.2771	0.4861	0.0169	0.1780	0.0349	0.3661
11	6.04	13.16	-0.7797	-0.0182	-0.2185	0.0234	0.2803	0.4865	0.0172	0.1761	0.0353	0.3620
12	6.02	12.41	-0.7239	-0.0148	-0.2035	0.0204	0.2811	0.4922	0.0168	0.1787	0.0341	0.3631
13	6.02	11.63	-0.6852	-0.0145	-0.1943	0.0212	0.2836	0.4919	0.0163	0.1775	0.0332	0.3609
14	6.02	10.87	-0.6332	-0.0118	-0.1861	0.0186	0.2939	0.4817	0.0154	0.1763	0.0321	0.3660
15	6.01	10.02	-0.6005	-0.0097	-0.1728	0.0162	0.2878	0.4823	0.0154	0.1745	0.0320	0.3618
16	6.01	9.27	-0.5566	-0.0070	-0.1617	0.0127	0.2905	0.4825	0.0152	0.1750	0.0315	0.3626
17	6.01	8.44	-0.5094	-0.0045	-0.1539	0.0089	0.3022	0.4731	0.0146	0.1717	0.0310	0.3630
18	6.00	7.65	-0.4563	-0.0029	-0.1436	0.0065	0.3146	0.4628	0.0139	0.1703	0.0301	0.3680
19	6.00	6.86	-0.4022	-0.0004	-0.1266	0.0010	0.3148	0.4729	0.0140	0.1704	0.0297	0.3603
20	6.00	6.08	-0.3520	-0.0009	-0.1138	0.0026	0.3233	0.4625	0.0137	0.1702	0.0297	0.3680
21	6.00	5.22	-0.2981	0.0004	-0.0952	-0.0013	0.3195	0.4562	0.0136	0.1672	0.0298	0.3665
22	6.00	4.45	-0.2528	0.0021	-0.0797	-0.0085	0.3154	0.4502	0.0133	0.1650	0.0295	0.3665
23	5.99	3.67	-0.2156	0.0029	-0.0669	-0.0137	0.3105	0.4423	0.0131	0.1628	0.0297	0.3680
24	5.99	2.96	-0.1652	0.0043	-0.0535	-0.0260	0.3241	0.4444	0.0133	0.1606	0.0299	0.3613
25	5.98	2.14	-0.1456	0.0039	-0.0411	-0.0271	0.2824	0.4323	0.0132	0.1542	0.0306	0.3566
26	5.98	1.38	-0.0962	0.0030	-0.0237	-0.0317	0.2459	0.4255	0.0128	0.1535	0.0302	0.3607
27	5.98	0.64	-0.0513	-0.0008	-0.0088	0.0156	0.1714	0.4068	0.0125	0.1477	0.0307	0.3630
28	5.98	-0.10	-0.0012	-0.0044	0.0032	3.6660	-2.6668	0.3976	0.0122	0.1446	0.0307	0.3636
29	5.98	-0.94	0.0388	-0.0085	0.0215	-0.2203	0.5549	0.3837	0.0115	0.1371	0.0301	0.3572
30	5.98	-1.70	0.0665	-0.0110	0.0368	-0.1654	0.5528	0.3712	0.0107	0.1353	0.0288	0.3645
31	5.99	-2.51	0.1084	-0.0114	0.0497	-0.1056	0.4587	0.3548	0.0099	0.1296	0.0280	0.3653
32	5.99	-3.31	0.1420	-0.0112	0.0597	-0.0792	0.4205	0.3476	0.0090	0.1260	0.0260	0.3626
33	5.99	-4.15	0.1876	-0.0098	0.0775	-0.0522	0.4132	0.3288	0.0074	0.1203	0.0225	0.3657
34	5.99	-4.88	0.2208	-0.0085	0.0908	-0.0387	0.4102	0.3181	0.0054	0.1164	0.0171	0.3659
35	5.99	-5.66	0.2711	-0.0082	0.1055	-0.0304	0.3893	0.3025	0.0023	0.1125	0.0076	0.3719
36	5.99	-6.44	0.3298	-0.0072	0.1226	-0.0220	0.3717	0.2829	-0.0023	0.1049	-0.0081	0.3707
37	6.00	-7.29	0.3624	-0.0070	0.1381	-0.0194	0.3809	0.2724	-0.0061	0.1024	-0.0224	0.3762
38	5.99	-8.04	0.4089	-0.0046	0.1519	-0.0112	0.3714	0.2476	-0.0107	0.0955	-0.0432	0.3857
39	6.00	-8.85	0.4554	-0.0031	0.1611	-0.0068	0.3534	0.2338	-0.0146	0.0919	-0.0624	0.3931
40	6.00	-9.61	0.4979	-0.0028	0.1773	-0.0056	0.3561	0.2263	-0.0187	0.0918	-0.0828	0.4057
41	6.00	-10.37	0.5540	-0.0004	0.1862	-0.0008	0.3361	0.1995	-0.0232	0.0860	-0.1163	0.4310
42	6.00	-11.15	0.5968	0.0005	0.2002	0.0009	0.3354	0.1874	-0.0280	0.0842	-0.1497	0.4495
43	6.00	-11.89	0.6265	0.0015	0.2092	0.0024	0.3339	0.1833	-0.0322	0.0828	-0.1756	0.4516
44	6.01	-12.70	0.6864	0.0034	0.2248	0.0050	0.3275	0.1654	-0.0377	0.0834	-0.2282	0.5043
45	6.01	-13.46	0.7292	0.0039	0.2330	0.0054	0.3195	0.1573	-0.0439	0.0775	-0.2790	0.4928
46	6.01	-14.32	0.7899	0.0044	0.2490	0.0056	0.3152	0.1557	-0.0470	0.0801	-0.3018	0.5143

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 142 0.85 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	6.01	-15.14	0.8315	0.0060	0.2625	0.0073	0.3157	0.1385	-0.0493	0.0745	-0.3563	0.5383
48	6.01	-15.95	0.8847	0.0082	0.2723	0.0093	0.3078	0.1306	-0.0529	0.0747	-0.4050	0.5721
49	6.01	-16.75	0.9284	0.0048	0.2841	0.0106	0.3060	0.1288	-0.0577	0.0785	-0.4479	0.6096
50	6.01	-17.60	0.9726	0.0090	0.2985	0.0093	0.3069	0.1326	-0.0606	0.0797	-0.4573	0.6009
51	6.00	-18.44	1.0156	0.0026	0.3153	0.0026	0.3105	0.1917	-0.0631	0.0981	-0.3294	0.5116
52	5.99	-19.29	1.0723	0.0002	0.3305	0.0002	0.3082	0.2017	-0.0643	0.1015	-0.3187	0.5033
53	5.98	-20.06	1.0498	-0.0007	0.3410	-0.0006	0.3100	0.2183	-0.0672	0.1076	-0.3080	0.4931

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION	
6	142	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	6.04	19.76	-0.7325	-0.0449	-0.2609	0.0613	0.3561	-0.0119	-0.0595	0.0558	4.9991	-4.6920
2	6.04	19.77	-0.7199	-0.0460	-0.2587	0.0556	0.3593	0.0133	-0.0596	0.0641	-4.4842	4.8219
3	6.04	19.47	-0.7041	-0.0489	-0.2686	0.0640	0.3515	-0.0243	-0.0579	0.0492	2.3843	-2.0248
4	6.04	18.69	-0.7867	-0.0505	-0.2757	0.0642	0.3505	0.0125	-0.0601	0.0681	-4.8111	5.4452
5	6.03	17.84	-0.8484	-0.0512	-0.2890	0.0603	0.3406	0.0127	-0.0580	0.0648	-4.5661	5.1049
6	6.05	17.05	-0.9783	-0.0546	-0.3425	0.0609	0.3501	-0.0592	-0.0523	0.0380	0.8833	-0.6414
7	6.04	16.25	-0.9580	-0.0593	-0.3488	0.0619	0.3641	0.0289	-0.0531	0.0676	-1.8388	2.3401
8	6.04	15.49	-0.9402	-0.0534	-0.3462	0.0568	0.3682	0.0362	-0.0484	0.0697	-1.3368	1.9271
9	6.04	14.72	-0.8896	-0.0513	-0.3398	0.0576	0.3820	0.0917	-0.0455	0.0797	-0.4966	0.8697
10	6.03	13.94	-0.8496	-0.0533	-0.3251	0.0627	0.3826	0.1588	-0.0435	0.0981	-0.2739	0.6179
11	6.04	13.16	-0.8922	-0.0425	-0.3604	0.0477	0.4039	0.1290	-0.0393	0.0863	-0.3050	0.6689
12	6.02	12.41	-0.8434	-0.0376	-0.3501	0.0446	0.4151	0.1702	-0.0349	0.0971	-0.2053	0.5706
13	6.02	11.63	-0.7944	-0.0346	-0.3335	0.0436	0.4198	0.1692	-0.0319	0.0970	-0.1885	0.5732
14	6.02	10.87	-0.7233	-0.0324	-0.3203	0.0448	0.4428	0.1977	-0.0278	0.1046	-0.1408	0.5290
15	6.01	10.02	-0.6666	-0.0284	-0.3043	0.0427	0.4365	0.2092	-0.0235	0.1087	-0.1126	0.5196
16	6.01	9.27	-0.6122	-0.0260	-0.2886	0.0425	0.4714	0.2335	-0.0190	0.1125	-0.0816	0.4818
17	6.01	8.44	-0.5485	-0.0217	-0.2694	0.0396	0.4911	0.2399	-0.0147	0.1187	-0.0615	0.4949
18	6.00	7.65	-0.4892	-0.0196	-0.2457	0.0401	0.5022	0.2637	-0.0113	0.1230	-0.0428	0.4667
19	6.00	6.86	-0.4167	-0.0188	-0.2217	0.0451	0.5321	0.2789	-0.0069	0.1290	-0.0247	0.4626
20	6.00	6.08	-0.3561	-0.0179	-0.1988	0.0504	0.5581	0.2952	-0.0040	0.1317	-0.0133	0.4460
21	6.00	5.22	-0.2848	-0.0160	-0.1714	0.0563	0.6017	0.3019	0.0009	0.1338	0.0031	0.4431
22	6.00	4.45	-0.2237	-0.0136	-0.1496	0.0610	0.6689	0.3140	0.0038	0.1355	0.0121	0.4316
23	5.99	3.67	-0.1807	-0.0113	-0.1248	0.0628	0.6907	0.3299	0.0056	0.1407	0.0170	0.4265
24	5.99	2.96	-0.1065	-0.0088	-0.1035	0.0826	0.9717	0.3327	0.0069	0.1459	0.0207	0.4384
25	5.98	2.14	-0.0490	-0.0069	-0.0627	0.1408	1.6383	0.3540	0.0076	0.1490	0.0215	0.4208
26	5.98	1.38	0.0056	-0.0058	-0.0568	-1.0355	-10.1489	0.3666	0.0080	0.1505	0.0219	0.4104
27	5.98	0.64	0.0556	-0.0046	-0.0384	-0.0827	-0.6902	0.3833	0.0084	0.1557	0.0219	0.4062
28	5.98	-0.10	0.0855	-0.0032	-0.0136	-0.0380	-0.1592	0.3781	0.0087	0.1596	0.0231	0.4221
29	5.98	-0.94	0.1351	-0.0008	0.0051	-0.0063	0.0379	0.3775	0.0042	0.1594	0.0244	0.4222
30	5.98	-1.70	0.1918	0.0007	0.0265	0.0039	0.1382	0.3901	0.0094	0.1645	0.0241	0.4216
31	5.99	-2.51	0.2437	0.0025	0.0503	0.0105	0.2064	0.4084	0.0095	0.1668	0.0234	0.4084
32	5.99	-3.31	0.2874	0.0046	0.0733	0.0162	0.2550	0.4126	0.0100	0.1689	0.0242	0.4093
33	5.99	-4.15	0.3429	0.0085	0.0990	0.0248	0.2886	0.3950	0.0095	0.1685	0.0242	0.4266
34	5.99	-4.88	0.4006	0.0107	0.1194	0.0267	0.2980	0.3941	0.0099	0.1717	0.0251	0.4357
35	5.99	-5.66	0.4515	0.0139	0.1457	0.0308	0.3226	0.4073	0.0100	0.1726	0.0245	0.4238
36	5.99	-6.44	0.5194	0.0166	0.1715	0.0320	0.3301	0.4077	0.0104	0.1702	0.0255	0.4173
37	6.00	-7.29	0.5798	0.0185	0.1950	0.0320	0.3363	0.3938	0.0106	0.1718	0.0270	0.4363
38	5.99	-8.04	0.6510	0.0204	0.2139	0.0313	0.3286	0.4072	0.0101	0.1726	0.0248	0.4238
39	6.00	-8.85	0.7003	0.0244	0.2361	0.0349	0.3372	0.4062	0.0113	0.1751	0.0279	0.4309
40	6.00	-9.61	0.7625	0.0289	0.2535	0.0380	0.3330	0.4105	0.0116	0.1772	0.0289	0.4316
41	6.00	-10.37	0.8062	0.0311	0.2694	0.0386	0.3342	0.4078	0.0112	0.1705	0.0276	0.4180
42	6.00	-11.15	0.8796	0.0356	0.2894	0.0405	0.3290	0.3978	0.0124	0.1759	0.0312	0.4420
43	6.00	-11.89	0.9290	0.0398	0.3044	0.0428	0.3276	0.4108	0.0130	0.1776	0.0316	0.4323
44	6.01	-12.70	0.9837	0.0449	0.3188	0.0457	0.3241	0.3676	0.0122	0.1724	0.0332	0.4689
45	6.01	-13.46	0.9922	0.0574	0.3017	0.0579	0.3041	0.3713	0.0130	0.1743	0.0351	0.4695
46	6.01	-14.32	1.0044	0.0557	0.2971	0.0554	0.2958	0.3642	0.0130	0.1719	0.0353	0.4668

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	AX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	1.42	0.85	1.7	0.0	0.2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	6.01	-15.14	1.0458	0.0574	0.3077	0.0549	0.2942	0.3596	0.0126	0.1696	0.0352	0.4717
48	6.01	-15.95	1.0613	0.0642	0.3105	0.0605	0.2926	0.3676	0.0132	0.1754	0.0360	0.4771
49	6.01	-16.75	1.0945	0.0663	0.3080	0.0606	0.2814	0.3606	0.0125	0.1701	0.0348	0.4716
50	6.01	-17.60	1.0118	0.0590	0.2690	0.0583	0.2658	0.3698	0.0130	0.1727	0.0353	0.4670
51	6.00	-18.44	0.7714	0.0387	0.2019	0.0502	0.2618	0.3773	0.0119	0.1778	0.0317	0.4713
52	5.99	-19.29	0.6521	0.0290	0.1732	0.0445	0.2656	0.3744	0.0112	0.1754	0.0300	0.4683
53	5.98	-20.06	0.6674	0.0292	0.1804	0.0438	0.2703	0.3852	0.0113	0.1723	0.0293	0.4472

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	143	0.85	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	9.01	19.87	1.4946	-3.3333	-3.3984	6.7774	-0.2910	0.0180	-2.2302		
2	9.02	19.49	1.5102	-3.3201	-3.4314	6.7306	-0.3090	0.0	-2.1945		
3	9.02	18.72	1.4722	-3.1729	-3.4060	6.5751	-0.2580	0.0025	-2.1552		
4	9.02	17.93	1.5124	-3.2262	-3.3385	6.5286	-0.2460	-0.0061	-2.1332		
5	9.03	17.08	1.4239	-2.9334	-3.2827	6.6995	-0.1610	-0.0498	-2.0601		
6	9.04	16.34	1.3909	-2.7052	-3.1389	6.7261	-0.0920	-0.0703	-1.9449		
7	9.03	15.52	1.4195	-2.8582	-2.9988	6.4420	-0.0690	-0.0714	-2.0135		
8	9.03	14.80	1.4420	-2.9347	-2.8253	6.1012	-0.0760	-0.0491	-2.0351		
9	9.03	13.97	1.4600	-3.0239	-2.6755	5.8191	-0.0680	-0.0396	-2.0711		
10	9.03	13.23	1.4506	-3.0227	-2.5178	5.6356	-0.0240	-0.0374	-2.0838		
11	9.02	12.45	1.4269	-3.0285	-2.3419	5.3934	0.0050	-0.0212	-2.1224		
12	9.01	11.71	1.4656	-3.1647	-2.1521	5.0407	0.0150	-0.0075	-2.1593		
13	9.01	10.91	1.4680	-3.2441	-2.0507	4.6888	0.0240	0.0056	-2.2098		
14	9.00	10.11	1.4608	-3.3180	-1.8996	4.3371	0.0290	0.0187	-2.2406		
15	9.00	9.29	1.5156	-3.5263	-1.7332	3.9272	0.0330	0.0300	-2.3205		
16	8.99	8.52	1.5054	-3.5594	-1.5447	3.5674	0.0320	0.0309	-2.3644		
17	8.99	7.68	1.5134	-3.6106	-1.3854	3.1234	0.0310	0.0470	-2.3857		
18	8.99	6.93	1.5425	-3.6753	-1.2066	2.7114	0.0220	0.0513	-2.3827		
19	8.98	6.08	1.5280	-3.7370	-1.0679	2.4059	0.0130	0.0587	-2.4457		
20	8.98	5.29	1.5442	-3.8277	-0.8750	1.9569	0.0050	0.0671	-2.4787		
21	8.98	4.47	1.5849	-3.8716	-0.7760	1.6523	0.0030	0.0678	-2.4428		
22	8.98	3.72	1.5931	-3.9591	-0.6284	1.3467	0.0030	0.0728	-2.4852		
23	8.98	2.97	1.5835	-3.9157	-0.4555	1.0817	0.0030	0.0784	-2.4728		
24	8.98	2.20	1.5793	-3.9778	-0.3493	0.8659	0.0090	0.0855	-2.5187		
25	8.97	1.40	1.5849	-3.9866	-0.2416	0.6062	0.0080	0.0889	-2.5154		
26	8.97	0.68	1.5773	-3.9720	-0.1728	0.3719	0.0110	0.0949	-2.5182		
27	8.97	-0.07	1.5983	-4.0254	-0.0211	0.1235	0.0180	0.0959	-2.5185		
28	8.97	-0.86	1.5886	-3.9858	-0.0735	-0.1479	0.0170	0.0944	-2.5090		
29	8.97	-1.67	1.5653	-3.9452	0.1555	-0.3597	0.0250	0.0945	-2.5204		
30	8.97	-2.43	1.5700	-3.9018	0.3220	-0.6517	0.0280	0.0826	-2.4852		
31	8.97	-3.30	1.5713	-3.9196	0.4146	-0.8455	0.0240	0.0857	-2.4945		
32	8.98	-4.08	1.5584	-3.8225	0.5828	-1.1899	0.0220	0.0876	-2.4529		
33	8.97	-4.87	1.5171	-3.7947	0.7415	-1.5140	0.0180	0.0844	-2.5013		
34	8.98	-5.59	1.5318	-3.7133	0.8561	-1.8304	0.0160	0.0859	-2.4242		
35	8.98	-6.39	1.5174	-3.6432	1.0229	-2.1589	0.0130	0.0865	-2.4009		
36	8.98	-7.21	1.5115	-3.5959	1.1565	-2.5900	0.0060	0.0830	-2.3790		
37	8.98	-7.97	1.4971	-3.5098	1.2812	-2.9296	0.0060	0.0817	-2.3444		
38	8.99	-8.78	1.4853	-3.4302	1.4508	-3.4279	0.0030	0.0843	-2.3095		
39	8.99	-9.60	1.4932	-3.3913	1.6266	-3.7990	0.0140	0.0756	-2.2712		
40	9.00	-10.35	1.5085	-3.3117	1.7483	-4.1434	0.0250	0.0771	-2.1954		
41	9.00	-11.12	1.5014	-3.2158	1.9212	-4.5745	0.0430	0.0736	-2.1419		
42	8.99	-11.87	1.4909	-3.1491	2.1213	-4.9026	0.0550	0.0596	-2.1122		
43	9.00	-12.64	1.4702	-3.0652	2.2365	-5.2458	0.0640	0.0477	-2.0848		
44	9.00	-13.43	1.4967	-3.1572	2.3818	-5.3992	0.0990	0.0465	-2.1095		
45	9.00	-14.26	1.4561	-3.0224	2.5616	-5.7239	0.0970	0.0416	-2.0757		
46	9.00	-15.11	1.4500	-3.0089	2.6807	-6.1597	0.1350	0.0419	-2.0751		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 143 0.85 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	9.00	-15.89	1.4117	-2.8563	2.8774	-6.4881	0.1110	0.0343	-2.0233
48	9.00	-16.73	1.4217	-2.8823	3.0615	-6.7298	0.1360	0.0442	-2.0273
49	9.00	-17.54	1.4380	-3.0071	3.1460	-6.5111	0.2140	0.0826	-2.0911
50	8.98	-18.42	1.5590	-3.5354	3.1131	-6.1441	0.3230	0.1496	-2.2678
51	8.98	-19.23	1.7039	-3.9662	3.1342	-5.9587	0.4079	0.1668	-2.3278
52	8.98	-20.03	1.6848	-3.8765	3.2761	-6.2023	0.4339	0.1476	-2.2941

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		143		0.85		1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF-2	YCPF2	
1	9.01	19.87	-1.0694	-0.0004	-0.2948	0.0004	0.2756	0.7644	0.0231	0.2694	0.0303	0.3524	
2	9.02	19.49	-1.0718	-0.0031	-0.2552	0.0029	0.2754	0.7652	0.0237	0.2723	0.0310	0.3558	
3	9.02	18.72	-1.0089	0.0016	-0.2808	-0.0016	0.2783	0.7621	0.0227	0.2687	0.0298	0.3526	
4	9.02	17.93	-0.9589	0.0010	-0.2736	-0.0010	0.2854	0.7712	0.0240	0.2718	0.0312	0.3524	
5	9.03	17.08	-0.9093	-0.0031	-0.2565	0.0035	0.2821	0.7615	0.0247	0.2681	0.0324	0.3521	
6	9.04	16.34	-0.8700	-0.0032	-0.2412	0.0037	0.2773	0.7452	0.0244	0.2611	0.0328	0.3504	
7	9.03	15.52	-0.8272	-0.0017	-0.2328	0.0021	0.2814	0.7583	0.0244	0.2644	0.0322	0.3486	
8	9.03	14.80	-0.8105	-0.0029	-0.2267	0.0036	0.2797	0.7595	0.0242	0.2647	0.0319	0.3485	
9	9.03	13.97	-0.7705	-0.0014	-0.2147	0.0018	0.2787	0.7493	0.0236	0.2624	0.0316	0.3502	
10	9.03	13.23	-0.7155	0.0002	-0.2024	-0.0003	0.2829	0.7442	0.0238	0.2631	0.0320	0.3535	
11	9.02	12.45	-0.6592	0.0033	-0.1897	-0.0050	0.2877	0.7438	0.0225	0.2612	0.0302	0.3512	
12	9.01	11.71	-0.6281	0.0050	-0.1801	-0.0080	0.2867	0.7372	0.0225	0.2580	0.0306	0.3500	
13	9.01	10.91	-0.5677	0.0070	-0.1685	-0.0124	0.2975	0.7270	0.0214	0.2548	0.0295	0.3505	
14	9.00	10.11	-0.5256	0.0086	-0.1582	-0.0165	0.3011	0.7204	0.0213	0.2553	0.0296	0.3544	
15	9.00	9.29	-0.4694	0.0107	-0.1439	-0.0228	0.3066	0.7232	0.0210	0.2565	0.0290	0.3546	
16	8.99	8.52	-0.4231	0.0108	-0.1329	-0.0256	0.3141	0.7173	0.0198	0.2531	0.0277	0.3529	
17	8.99	7.68	-0.3564	0.0130	-0.1153	-0.0365	0.3234	0.7122	0.0195	0.2515	0.0274	0.3532	
18	8.99	6.93	-0.3180	0.0134	-0.1064	-0.0421	0.3345	0.7035	0.0197	0.2489	0.0281	0.3538	
19	8.98	6.08	-0.2849	0.0158	-0.0922	-0.0554	0.3237	0.7100	0.0197	0.2496	0.0278	0.3515	
20	8.98	5.29	-0.2290	0.0185	-0.0824	-0.0808	0.3599	0.6973	0.0194	0.2452	0.0278	0.3517	
21	8.98	4.47	-0.2001	0.0204	-0.0694	-0.1019	0.3467	0.6906	0.0197	0.2423	0.0285	0.3509	
22	8.98	3.72	-0.1756	0.0206	-0.0583	-0.1176	0.3321	0.6779	0.0200	0.2381	0.0295	0.3512	
23	8.98	2.97	-0.1381	0.0199	-0.0462	-0.1444	0.3347	0.6599	0.0190	0.2319	0.0288	0.3514	
24	8.98	2.20	-0.1058	0.0163	-0.0336	-0.1540	0.3181	0.6458	0.0191	0.2263	0.0296	0.3504	
25	8.97	1.40	-0.0785	0.0095	-0.0205	-0.1210	0.2606	0.6250	0.0184	0.2208	0.0294	0.3532	
26	8.97	0.68	-0.0515	0.0021	-0.0058	-0.0408	0.1119	0.6203	0.0182	0.2162	0.0293	0.3485	
27	8.97	-0.07	-0.0105	-0.0054	0.0050	-0.5142	-0.4763	0.5935	0.0177	0.2093	0.0298	0.3526	
28	8.97	-0.86	0.0082	-0.0119	0.0182	-1.4510	2.2235	0.5765	0.0167	0.2020	0.0290	0.3504	
29	8.97	-1.67	0.0346	-0.0192	0.0375	-0.5548	1.0847	0.5645	0.0152	0.1956	0.0269	0.3465	
30	8.97	-2.43	0.0620	-0.0245	0.0527	-0.3951	0.8510	0.5406	0.0145	0.1888	0.0269	0.3493	
31	8.97	-3.30	0.0957	-0.0251	0.0613	-0.2628	0.6404	0.5239	0.0131	0.1817	0.0251	0.3468	
32	8.98	-4.08	0.1291	-0.0258	0.0705	-0.2002	0.5462	0.5077	0.0125	0.1763	0.0247	0.3472	
33	8.97	-4.87	0.1496	-0.0252	0.0812	-0.1684	0.5431	0.4891	0.0114	0.1710	0.0234	0.3496	
34	8.98	-5.59	0.2050	-0.0230	0.0925	-0.1124	0.4513	0.4719	0.0083	0.1643	0.0177	0.3483	
35	8.98	-6.39	0.2206	-0.0222	0.1087	-0.1006	0.4928	0.4562	0.0049	0.1582	0.0108	0.3468	
36	8.98	-7.21	0.2627	-0.0207	0.1223	-0.0790	0.4657	0.4357	0.0003	0.1543	0.0008	0.3541	
37	8.98	-7.97	0.3143	-0.0200	0.1319	-0.0638	0.4197	0.4210	-0.0038	0.1488	-0.0090	0.3534	
38	8.99	-8.78	0.3691	-0.0187	0.1497	-0.0508	0.4055	0.3929	-0.0094	0.1427	-0.0239	0.3632	
39	8.99	-9.60	0.4299	-0.0170	0.1624	-0.0395	0.3776	0.3653	-0.0139	0.1357	-0.0382	0.3715	
40	9.00	-10.35	0.4723	-0.0145	0.1760	-0.0307	0.3726	0.3339	-0.0180	0.1263	-0.0539	0.3781	
41	9.00	-11.12	0.5369	-0.0112	0.1894	-0.0209	0.3528	0.2976	-0.0225	0.1163	-0.0756	0.3907	
42	8.99	-11.87	0.5795	-0.0072	0.2031	-0.0124	0.3505	0.2617	-0.0269	0.1048	-0.1030	0.4005	
43	9.00	-12.64	0.6272	-0.0036	0.2123	-0.0057	0.3385	0.2292	-0.0313	0.1006	-0.1368	0.4388	
44	9.00	-13.43	0.6695	-0.0026	0.2277	-0.0039	0.3401	0.2622	-0.0362	0.1093	-0.1380	0.4171	
45	9.00	-14.26	0.7070	-0.0012	0.2381	-0.0017	0.3368	0.2579	-0.0370	0.1122	-0.1434	0.4352	
46	9.00	-15.11	0.7772	0.0036	0.2487	0.0047	0.3200	0.2072	-0.0389	0.0948	-0.1877	0.4577	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	143	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	9.00	-15.89	0.8068	0.0045	0.2575	0.0056	0.3192	0.2199	-0.0429	0.1015	-0.1951	0.4615
48	9.00	-16.73	0.8584	0.0044	0.2705	0.0052	0.3152	0.2249	-0.0482	0.1061	-0.2143	0.4719
49	9.00	-17.54	0.9037	0.0009	0.2886	0.0011	0.3194	0.2622	-0.0546	0.1190	-0.2084	0.4541
50	8.98	-18.42	0.9613	-0.0067	0.3092	-0.0070	0.3217	0.3010	-0.0598	0.1320	-0.1987	0.4385
51	8.98	-19.23	1.0094	-0.0078	0.3207	-0.0078	0.3177	0.2838	-0.0597	0.1263	-0.2102	0.4449
52	8.98	-20.03	1.0494	-0.0073	0.3323	-0.0070	0.3166	0.2778	-0.0624	0.1258	-0.2245	0.4527

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION		
6	143	0.85	1.7	0.0	B2HOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CU4	XCPF4	YCPF4
1	9.01	19.87	-0.6803	-0.0310	-0.2607	0.0456	0.3832	0.3030	-0.0626	0.1676	-0.2067	0.5529
2	9.02	19.49	-0.6801	-0.0319	-0.2646	0.0469	0.3891	0.2601	-0.0606	0.1568	-0.2331	0.6031
3	9.02	18.72	-0.7176	-0.0359	-0.2650	0.0500	0.3693	0.2685	-0.0630	0.1593	-0.2346	0.5935
4	9.02	17.93	-0.7733	-0.0528	-0.2791	0.0603	0.3609	0.2144	-0.0649	0.1420	-0.3029	0.6625
5	9.03	17.08	-0.9435	-0.0593	-0.3291	0.0628	0.3488	0.1832	-0.0576	0.1318	-0.3157	0.7197
6	9.04	16.34	-0.9771	-0.0600	-0.3592	0.0614	0.3676	0.2132	-0.0517	0.1301	-0.2425	0.6164
7	9.03	15.52	-0.9636	-0.0568	-0.3584	0.0590	0.3719	0.2192	-0.0458	0.1364	-0.2091	0.6224
8	9.03	14.80	-0.9118	-0.0526	-0.3551	0.0577	0.3895	0.2113	-0.0440	0.1292	-0.2082	0.6115
9	9.03	13.97	-0.8610	-0.0527	-0.3401	0.0612	0.3950	0.2257	-0.0403	0.1381	-0.1787	0.6119
10	9.03	13.23	-0.8979	-0.0512	-0.3598	0.0571	0.4007	0.2382	-0.0344	0.1365	-0.1446	0.5733
11	9.02	12.45	-0.8498	-0.0405	-0.3610	0.0477	0.4247	0.2750	-0.0287	0.1446	-0.1045	0.5259
12	9.01	11.71	-0.7858	-0.0380	-0.3466	0.0484	0.4404	0.2994	-0.0258	0.1492	-0.0863	0.4982
13	9.01	10.91	-0.7329	-0.0348	-0.3291	0.0475	0.4490	0.3331	-0.0222	0.1537	-0.0666	0.4614
14	9.00	10.11	-0.6752	-0.0306	-0.3149	0.0454	0.4663	0.3491	-0.0192	0.1597	-0.0551	0.4575
15	9.00	9.29	-0.6178	-0.0276	-0.2561	0.0447	0.4794	0.3767	-0.0147	0.1668	-0.0390	0.4428
16	8.99	8.52	-0.5484	-0.0236	-0.2799	0.0431	0.5104	0.3793	-0.0106	0.1704	-0.0279	0.4492
17	8.99	7.68	-0.4727	-0.0218	-0.2544	0.0461	0.5382	0.4042	-0.0041	0.1756	-0.0101	0.4344
18	8.99	6.93	-0.4024	-0.0206	-0.2322	0.0512	0.5769	0.4247	-0.0001	0.1769	-0.0004	0.4165
19	8.98	6.08	-0.3473	-0.0155	-0.2060	0.0503	0.5931	0.4447	0.0031	0.1816	0.0071	0.4083
20	8.98	5.29	-0.2839	-0.0167	-0.1785	0.0590	0.6266	0.4559	0.0065	0.1857	0.0143	0.4073
21	8.98	4.47	-0.2149	-0.0142	-0.1540	0.0661	0.7166	0.4660	0.0091	0.1946	0.0196	0.4175
22	8.98	3.72	-0.1653	-0.0115	-0.1330	0.0696	0.8045	0.4821	0.0103	0.2006	0.0215	0.4162
23	8.98	2.97	-0.1006	-0.0085	-0.1080	0.0845	1.0738	0.5077	0.0109	0.2030	0.0215	0.3998
24	8.98	2.20	-0.0475	-0.0069	-0.0665	0.1452	1.8216	0.5187	0.0119	0.2119	0.0230	0.4086
25	8.97	1.40	0.0078	-0.0058	-0.0614	-0.7499	-7.8719	0.5355	0.0127	0.2154	0.0238	0.4023
26	8.97	0.68	0.0575	-0.0046	-0.0415	-0.0800	-0.7294	0.5557	0.0138	0.2208	0.0248	0.3973
27	8.97	-0.07	0.1050	-0.0036	-0.0183	-0.0343	-0.1744	0.5769	0.0150	0.2264	0.0260	0.3925
28	8.97	-0.86	0.1480	-0.0005	0.0002	-0.0037	0.0420	0.5755	0.0151	0.2322	0.0262	0.4034
29	8.97	-1.67	0.2140	0.0006	0.0258	0.0030	0.1206	0.5970	0.0161	0.2343	0.0270	0.3925
30	8.97	-2.43	0.2664	0.0025	0.0475	0.0094	0.1797	0.6005	0.0161	0.2367	0.0268	0.3975
31	8.97	-3.30	0.3006	0.0054	0.0736	0.0180	0.2448	0.6050	0.0153	0.2415	0.0254	0.3992
32	8.98	-4.08	0.3700	0.0098	0.0567	0.0266	0.2613	0.6213	0.0165	0.2440	0.0266	0.3928
33	8.97	-4.87	0.4229	0.0126	0.1195	0.0298	0.2826	0.6253	0.0171	0.2478	0.0274	0.3964
34	8.98	-5.59	0.4742	0.0153	0.1438	0.0323	0.3033	0.6159	0.0168	0.2478	0.0273	0.4024
35	8.98	-6.39	0.5482	0.0179	0.1689	0.0327	0.3080	0.6302	0.0174	0.2501	0.0276	0.3968
36	8.98	-7.21	0.5987	0.0202	0.1960	0.0337	0.3274	0.6263	0.0170	0.2482	0.0272	0.3963
37	8.98	-7.97	0.6648	0.0230	0.2191	0.0346	0.3296	0.6352	0.0165	0.2521	0.0260	0.3970
38	8.99	-8.78	0.7322	0.0282	0.2412	0.0386	0.3294	0.6223	0.0174	0.2498	0.0280	0.4015
39	8.99	-9.60	0.7944	0.0316	0.2601	0.0398	0.3274	0.6359	0.0187	0.2528	0.0294	0.3975
40	9.00	-10.35	0.8458	0.0343	0.2780	0.0406	0.3287	0.6446	0.0187	0.2542	0.0290	0.3943
41	9.00	-11.12	0.9095	0.0371	0.2972	0.0408	0.3267	0.6394	0.0191	0.2563	0.0299	0.4009
42	8.99	-11.87	0.9691	0.0410	0.3084	0.0423	0.3183	0.6437	0.0203	0.2551	0.0315	0.3963
43	9.00	-12.64	1.0145	0.0443	0.3222	0.0437	0.3175	0.6389	0.0203	0.2565	0.0318	0.4014
44	9.00	-13.43	0.9859	0.0602	0.2575	0.0610	0.3022	0.6306	0.0198	0.2560	0.0315	0.4060
45	9.00	-14.26	1.0389	0.0570	0.3031	0.0548	0.2917	0.6347	0.0197	0.2532	0.0310	0.3989
46	9.00	-15.11	1.0798	0.0575	0.3159	0.0533	0.2926	0.6427	0.0201	0.2570	0.0313	0.4000

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHA CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 143 0.85 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	9.00	-15.84	1.1159	0.0630	0.3239	0.0565	0.2903	0.6467	0.0199	0.2588	0.0308	0.4002
48	9.00	-16.73	1.1377	0.0664	0.3183	0.0584	0.2798	0.6375	0.0209	0.2593	0.0328	0.4068
49	9.00	-17.54	0.9723	0.0578	0.2576	0.0594	0.2649	0.6207	0.0197	0.2557	0.0317	0.4120
50	8.98	-18.42	0.7961	0.0363	0.2087	0.0456	0.2621	0.6475	0.0173	0.2613	0.0268	0.4036
51	8.98	-19.23	0.6909	0.0286	0.1854	0.0414	0.2684	0.6531	0.0179	0.2595	0.0274	0.3974
52	8.98	-20.03	0.7056	0.0286	0.1925	0.0405	0.2728	0.6457	0.0173	0.2577	0.0268	0.3992

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	144	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	12.07	19.86	2.1637	-4.4530	-3.4742	6.5107	-0.3140	0.0080	-2.0580		
2	12.07	19.49	2.1293	-4.4249	-3.4808	6.4260	-0.3040	0.0010	-2.0781		
3	12.07	18.72	2.1595	-4.3951	-3.3723	6.2480	-0.2880	-0.0078	-2.0352		
4	12.08	17.91	2.2243	-4.3949	-3.2752	6.0560	-0.2680	-0.0092	-1.9758		
5	12.08	17.06	2.1469	-4.2075	-3.2038	6.1601	-0.1680	-0.0463	-1.9598		
6	12.08	16.30	2.0329	-3.9330	-3.1694	6.3299	-0.0770	-0.0678	-1.9346		
7	12.07	15.50	2.0175	-3.9944	-2.9900	6.0738	-0.0690	-0.0613	-1.9798		
8	12.07	14.76	2.0122	-4.0620	-2.8522	5.7829	-0.0450	-0.0430	-2.0186		
9	12.06	13.93	2.0583	-4.3015	-2.6741	5.4066	-0.0110	-0.0338	-2.0898		
10	12.06	13.18	2.0405	-4.3645	-2.5228	5.2776	0.0160	-0.0335	-2.1389		
11	12.05	12.41	2.0214	-4.3988	-2.4294	5.1689	0.0640	-0.0272	-2.1761		
12	12.05	11.67	2.0502	-4.4851	-2.2570	4.7906	0.0680	-0.0140	-2.1876		
13	12.05	10.86	2.0802	-4.5871	-2.0341	4.3846	0.0650	0.0	-2.2051		
14	12.04	10.07	2.1141	-4.7535	-1.8349	3.9556	0.0510	0.0100	-2.2465		
15	12.04	9.25	2.1095	-4.7921	-1.6826	3.6204	0.0640	0.0174	-2.2716		
16	12.03	8.56	2.1264	-4.9047	-1.5075	3.2159	0.0610	0.0227	-2.3066		
17	12.03	7.62	2.1677	-5.0675	-1.3495	2.7692	0.0620	0.0310	-2.3377		
18	12.02	6.87	2.1477	-5.1465	-1.2080	2.5101	0.0480	0.0329	-2.3963		
19	12.02	6.04	2.1808	-5.2319	-0.9572	2.0560	0.0320	0.0359	-2.3990		
20	12.02	5.24	2.2027	-5.3295	-0.8514	1.7049	0.0300	0.0371	-2.4195		
21	12.00	4.40	2.1759	-5.3400	-0.7535	1.3869	0.0160	0.0440	-2.4541		
22	12.01	3.67	2.1964	-5.3497	-0.5696	1.0854	0.0090	0.0479	-2.4356		
23	12.00	2.91	2.1971	-5.4017	-0.4567	0.8024	0.0120	0.0500	-2.4585		
24	12.00	2.13	2.2148	-5.4274	-0.3837	0.6352	0.0130	0.0556	-2.4505		
25	12.00	1.33	2.2226	-5.4763	-0.2657	0.4759	0.0190	0.0603	-2.4639		
26	11.99	0.62	2.2273	-5.5539	-0.1737	0.3281	0.0210	0.0700	-2.4891		
27	12.00	-0.15	2.2280	-5.5489	-0.0672	0.1651	0.0290	0.0769	-2.4905		
28	12.00	-0.94	2.2255	-5.5334	0.0600	-0.0300	0.0320	0.0772	-2.4864		
29	12.01	-1.76	2.2559	-5.4990	0.1135	-0.1769	0.0330	0.0807	-2.4576		
30	12.00	-2.54	2.2492	-5.3426	0.2742	-0.4558	0.0400	0.0764	-2.4642		
31	12.00	-3.37	2.2148	-5.4734	0.4040	-0.6177	0.0260	0.0769	-2.4713		
32	12.00	-4.16	2.2096	-5.4062	0.5305	-0.9397	0.0240	0.0725	-2.4467		
33	11.99	-4.93	2.2166	-5.4219	0.6494	-1.2351	0.0010	0.0726	-2.4461		
34	12.00	-5.67	2.1654	-5.2483	0.8307	-1.6149	-0.0120	0.0732	-2.4237		
35	12.00	-6.49	2.1292	-5.0686	1.0021	-1.9838	-0.0220	0.0668	-2.3805		
36	12.00	-7.28	2.0595	-4.9811	1.1561	-2.3145	-0.0150	0.0610	-2.3725		
37	12.01	-8.11	2.1131	-4.9021	1.2630	-2.7221	-0.0170	0.0518	-2.3198		
38	12.02	-8.85	2.0802	-4.7191	1.4630	-3.0741	-0.0210	0.0415	-2.2685		
39	12.01	-9.66	2.0677	-4.7256	1.6562	-3.5015	-0.0220	0.0384	-2.2854		
40	12.02	-10.42	2.0482	-4.6423	1.8112	-3.8584	-0.0190	0.0407	-2.2665		
41	12.02	-11.22	2.0151	-4.4930	2.0058	-4.3000	-0.0320	0.0430	-2.2296		
42	12.03	-11.95	2.0380	-4.3910	2.1535	-4.6107	0.0100	0.0471	-2.1545		
43	12.04	-12.76	2.0587	-4.2190	2.2953	-4.9302	0.0360	0.0434	-2.0493		
44	12.04	-13.52	2.1226	-4.3685	2.3662	-4.9504	0.1120	0.0579	-2.0581		
45	12.06	-14.40	2.1864	-4.3124	2.5030	-5.3529	0.1800	0.0531	-1.9726		
46	12.06	-15.23	2.1767	-4.2932	2.6894	-5.7830	0.1940	0.0292	-1.9723		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 144 0.85 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	12.06	-16.05	2.1067	-4.1063	2.8388	-6.1121	0.1730	0.0186	-1.9491	
48	12.04	-16.84	2.0235	-4.1798	3.0376	-6.3304	0.1740	0.0366	-2.0656	
49	12.03	-17.70	2.1554	-4.6694	3.0550	-5.8118	0.2840	0.0895	-2.1663	
50	12.03	-18.55	2.1542	-4.6747	3.1216	-5.9440	0.3530	0.1036	-2.1700	
51	12.03	-19.42	2.1491	-4.6246	3.2997	-6.2453	0.3680	0.1034	-2.1518	
52	12.03	-20.17	2.2700	-5.0228	3.2633	-5.8894	0.4599	0.1158	-2.2127	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		144		0.85 1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	12.07	19.86	-0.8938	0.0214	-0.2768	-0.0239	0.3097	0.9939	0.0306	0.3425	0.0308	0.3446	
2	12.07	19.49	-0.8938	0.0187	-0.2791	-0.0209	0.3123	0.9972	0.0317	0.3423	0.0318	0.3432	
3	12.07	18.72	-0.8618	0.0193	-0.2716	-0.0224	0.3151	0.9912	0.0314	0.3405	0.0317	0.3435	
4	12.08	17.91	-0.8411	0.0199	-0.2615	-0.0237	0.3109	0.9977	0.0333	0.3413	0.0334	0.3420	
5	12.08	17.06	-0.7739	0.0191	-0.2458	-0.0247	0.3175	0.9887	0.0340	0.3343	0.0344	0.3381	
6	12.08	16.30	-0.7115	0.0199	-0.2263	-0.0280	0.3180	0.9790	0.0329	0.3322	0.0336	0.3393	
7	12.07	15.50	-0.6903	0.0177	-0.2239	-0.0256	0.3244	0.9737	0.0337	0.3321	0.0346	0.3410	
8	12.07	14.76	-0.6258	0.0202	-0.2126	-0.0323	0.3398	0.9559	0.0331	0.3273	0.0346	0.3424	
9	12.06	13.93	-0.5705	0.0220	-0.1584	-0.0385	0.3478	0.9653	0.0331	0.3287	0.0343	0.3405	
10	12.06	13.18	-0.5358	0.0225	-0.1886	-0.0420	0.3521	0.9551	0.0320	0.3267	0.0335	0.3420	
11	12.05	12.41	-0.4763	0.0239	-0.1692	-0.0502	0.3553	0.9513	0.0317	0.3254	0.0334	0.3420	
12	12.05	11.67	-0.4336	0.0234	-0.1607	-0.0541	0.3706	0.9371	0.0305	0.3241	0.0326	0.3458	
13	12.05	10.86	-0.3776	0.0235	-0.1487	-0.0623	0.3938	0.9412	0.0306	0.3243	0.0325	0.3446	
14	12.04	10.07	-0.3646	0.0223	-0.1435	-0.0611	0.3935	0.9423	0.0309	0.3222	0.0328	0.3419	
15	12.04	9.25	-0.3068	0.0247	-0.1231	-0.0806	0.4013	0.9214	0.0289	0.3193	0.0314	0.3466	
16	12.03	8.46	-0.2638	0.0270	-0.1114	-0.1023	0.4223	0.9167	0.0292	0.3166	0.0318	0.3453	
17	12.03	7.62	-0.2131	0.0298	-0.0995	-0.1401	0.4670	0.9135	0.0290	0.3160	0.0317	0.3459	
18	12.02	6.87	-0.1797	0.0314	-0.0904	-0.1747	0.5029	0.8982	0.0273	0.3134	0.0304	0.3489	
19	12.02	6.04	-0.1505	0.0340	-0.0790	-0.2262	0.5252	0.8928	0.0285	0.3100	0.0319	0.3472	
20	12.02	5.24	-0.0916	0.0380	-0.0628	-0.4153	0.6858	0.8909	0.0270	0.3077	0.0304	0.3453	
21	12.00	4.40	-0.0696	0.0400	-0.0615	-0.5746	0.8835	0.8766	0.0279	0.3025	0.0318	0.3451	
22	12.01	3.67	-0.0495	0.0393	-0.0522	-0.7938	1.0544	0.8569	0.0276	0.2983	0.0322	0.3481	
23	12.00	2.91	-0.0169	0.0350	-0.0429	-2.0736	2.5403	0.8432	0.0266	0.2935	0.0316	0.3480	
24	12.00	2.13	-0.0027	0.0277	-0.0315	-10.2574	11.6665	0.8206	0.0256	0.2859	0.0312	0.3484	
25	12.00	1.33	0.0007	0.0141	-0.0149	-20.1393	-21.2382	0.7998	0.0242	0.2798	0.0303	0.3498	
26	11.99	0.62	0.0022	0.0045	-0.0080	-2.0678	-3.6213	0.7872	0.0244	0.2770	0.0310	0.3519	
27	12.00	-0.15	0.0197	-0.0074	0.0063	-0.3781	0.3180	0.7622	0.0222	0.2678	0.0291	0.3513	
28	12.00	-0.94	0.0375	-0.0191	0.0203	-0.5092	0.5412	0.7396	0.0208	0.2608	0.0281	0.3527	
29	12.01	-1.76	0.0337	-0.0315	0.0307	-0.9346	0.9118	0.7176	0.0206	0.2523	0.0287	0.3516	
30	12.00	-2.54	0.0558	-0.0405	0.0456	-0.7257	0.8171	0.6875	0.0190	0.2433	0.0277	0.3539	
31	12.00	-3.37	0.0495	-0.0455	0.0508	-0.9200	1.0261	0.6641	0.0180	0.2339	0.0271	0.3522	
32	12.00	-4.16	0.0698	-0.0467	0.0591	-0.6689	0.8475	0.6453	0.0168	0.2277	0.0260	0.3529	
33	11.99	-4.93	0.0745	-0.0450	0.0586	-0.6046	0.7869	0.6346	0.0161	0.2230	0.0254	0.3513	
34	12.00	-5.67	0.1260	-0.0382	0.0702	-0.3035	0.5570	0.6195	0.0146	0.2157	0.0236	0.3482	
35	12.00	-6.49	0.1690	-0.0361	0.0760	-0.2136	0.4498	0.5972	0.0125	0.2108	0.0210	0.3530	
36	12.00	-7.28	0.2101	-0.0368	0.0942	-0.1656	0.4484	0.5717	0.0081	0.2025	0.0142	0.3542	
37	12.01	-8.11	0.2438	-0.0316	0.1082	-0.1298	0.4440	0.5432	0.0030	0.1962	0.0055	0.3612	
38	12.02	-8.85	0.2064	-0.0311	0.1197	-0.1087	0.4180	0.5274	-0.0019	0.1929	-0.0037	0.3658	
39	12.01	-9.66	0.3242	-0.0302	0.1348	-0.0931	0.4159	0.5099	-0.0070	0.1885	-0.0137	0.3697	
40	12.02	-10.42	0.3583	-0.0310	0.1443	-0.0866	0.4027	0.5081	-0.0099	0.1877	-0.0195	0.3694	
41	12.02	-11.22	0.3968	-0.0304	0.1531	-0.0767	0.3859	0.4836	-0.0151	0.1807	-0.0312	0.3737	
42	12.03	-11.95	0.4689	-0.0278	0.1725	-0.0593	0.3680	0.4214	-0.0227	0.1670	-0.0538	0.3963	
43	12.04	-12.76	0.5284	-0.0247	0.1889	-0.0467	0.3574	0.3792	-0.0282	0.1540	-0.0743	0.4060	
44	12.04	-13.52	0.5793	-0.0237	0.2022	-0.0408	0.3491	0.3436	-0.0322	0.1483	-0.0938	0.4316	
45	12.06	-14.40	0.6787	-0.0159	0.2216	-0.0234	0.3266	0.2540	-0.0357	0.1179	-0.1405	0.4643	
46	12.06	-15.23	0.7479	-0.0083	0.2368	-0.0111	0.3166	0.2453	-0.0376	0.1125	-0.1533	0.4588	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6												
6 144 0.85 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 0.2 WOF 12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	12.06	-16.05	0.7667	-0.0095	0.2464	-0.0124	0.3213	0.2768	-0.0420	0.1310	-0.1517	0.4733
48	12.04	-16.84	0.8042	-0.0136	0.2551	-0.0169	0.3172	0.3197	-0.0481	0.1479	-0.1505	0.4627
49	12.03	-17.70	0.8487	-0.0213	0.2700	-0.0251	0.3181	0.3851	-0.0565	0.1721	-0.1467	0.4469
50	12.03	-18.55	0.9031	-0.0215	0.2868	-0.0238	0.3176	0.3700	-0.0583	0.1645	-0.1576	0.4445
51	12.03	-19.42	0.9428	-0.0238	0.2986	-0.0252	0.3167	0.3800	-0.0605	0.1707	-0.1593	0.4492
52	12.03	-20.17	0.9909	-0.0207	0.3113	-0.0209	0.3141	0.3297	-0.0594	0.1534	-0.1801	0.4651

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		144		0.85		1.7	0.0	82WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
1	12.07	19.86	-0.7476	-0.0297	-0.2660	0.0397	0.3558	0.4091	-0.0603	0.1913	-0.1473	0.4676	
2	12.07	19.49	-0.7628	-0.0321	-0.2716	0.0421	0.3560	0.3704	-0.0530	0.1814	-0.1594	0.4898	
3	12.07	18.72	-0.7748	-0.0381	-0.2723	0.0442	0.3514	0.3836	-0.0581	0.1769	-0.1514	0.4612	
4	12.08	17.91	-0.8289	-0.0538	-0.2769	0.0645	0.3341	0.3102	-0.0594	0.1640	-0.1916	0.5285	
5	12.08	17.06	-0.9441	-0.0547	-0.3149	0.0633	0.3335	0.3407	-0.0568	0.1659	-0.1668	0.4870	
6	12.08	16.30	-1.0349	-0.0607	-0.3558	0.0586	0.3438	0.3550	-0.0496	0.1743	-0.1398	0.4909	
7	12.07	15.50	-1.0170	-0.0561	-0.3630	0.0551	0.3569	0.3245	-0.0449	0.1642	-0.1383	0.5060	
8	12.07	14.76	-0.9782	-0.0549	-0.3545	0.0561	0.3623	0.3703	-0.0382	0.1738	-0.1032	0.4693	
9	12.06	13.93	-0.9509	-0.0582	-0.3417	0.0612	0.3593	0.4255	-0.0347	0.1838	-0.0616	0.4319	
10	12.06	13.18	-0.9416	-0.0556	-0.3541	0.0591	0.3760	0.4453	-0.0320	0.1882	-0.0718	0.4226	
11	12.05	12.41	-0.9105	-0.0431	-0.3602	0.0474	0.3956	0.4906	-0.0251	0.1940	-0.0512	0.3954	
12	12.05	11.67	-0.8514	-0.0401	-0.3472	0.0471	0.4078	0.5017	-0.0205	0.1971	-0.0409	0.3928	
13	12.05	10.86	-0.7883	-0.0357	-0.3299	0.0453	0.4186	0.5204	-0.0163	0.2020	-0.0314	0.3882	
14	12.04	10.07	-0.7383	-0.0321	-0.3129	0.0435	0.4238	0.5194	-0.0130	0.1974	-0.0266	0.3800	
15	12.04	9.25	-0.6619	-0.0285	-0.2952	0.0431	0.4461	0.5556	-0.0061	0.2071	-0.0110	0.3728	
16	12.03	8.46	-0.5984	-0.0266	-0.2723	0.0445	0.4550	0.5645	-0.0008	0.2105	-0.0014	0.3729	
17	12.03	7.62	-0.5167	-0.0236	-0.2484	0.0458	0.4816	0.5919	0.0048	0.2174	0.0081	0.3673	
18	12.02	6.87	-0.4620	-0.0222	-0.2239	0.0481	0.4847	0.6038	0.0081	0.2209	0.0134	0.3658	
19	12.02	6.04	-0.3647	-0.0213	-0.1987	0.0585	0.5448	0.6194	0.0111	0.2228	0.0180	0.3597	
20	12.02	5.24	-0.3167	-0.0196	-0.1683	0.0619	0.5314	0.6404	0.0141	0.2260	0.0220	0.3529	
21	12.00	4.40	-0.2435	-0.0162	-0.1446	0.0665	0.5940	0.6479	0.0155	0.2298	0.0240	0.3547	
22	12.01	3.67	-0.1775	-0.0130	-0.1232	0.0735	0.6943	0.6595	0.0171	0.2338	0.0259	0.3546	
23	12.00	2.91	-0.1349	-0.0096	-0.0979	0.0712	0.7261	0.6894	0.0197	0.2428	0.0286	0.3522	
24	12.00	2.13	-0.0824	-0.0077	-0.0758	0.0940	0.9206	0.7149	0.0202	0.2513	0.0282	0.3515	
25	12.00	1.33	-0.0189	-0.0058	-0.0502	0.3095	2.6560	0.7451	0.0205	0.2618	0.0275	0.3513	
26	11.99	0.62	0.0266	-0.0040	-0.0304	-0.1522	-1.1442	0.7716	0.0208	0.2700	0.0269	0.3499	
27	12.00	-0.15	0.0746	-0.0024	-0.0075	-0.0322	-0.1011	0.8055	0.0212	0.2779	0.0263	0.3450	
28	12.00	-0.94	0.1133	-0.0009	0.0160	-0.0084	0.1408	0.8124	0.0211	0.2848	0.0260	0.3506	
29	12.01	-1.76	0.1777	-0.0001	0.0382	-0.0006	0.2150	0.8467	0.0221	0.2894	0.0261	0.3418	
30	12.00	-2.54	0.2281	0.0026	0.0624	0.0114	0.2736	0.8676	0.0232	0.2955	0.0267	0.3406	
31	12.00	-3.37	0.2893	0.0058	0.0902	0.0202	0.3118	0.8778	0.0231	0.2987	0.0263	0.3403	
32	12.00	-4.16	0.3452	0.0092	0.1135	0.0268	0.3300	0.8905	0.0237	0.3004	0.0266	0.3374	
33	11.99	-4.93	0.4000	0.0130	0.1402	0.0326	0.3505	0.9033	0.0233	0.3036	0.0258	0.3361	
34	12.00	-5.67	0.4726	0.0168	0.1645	0.0355	0.3480	0.8993	0.0232	0.3018	0.0258	0.3355	
35	12.00	-6.49	0.5357	0.0199	0.1907	0.0371	0.3560	0.8991	0.0248	0.3001	0.0276	0.3338	
36	12.00	-7.28	0.6055	0.0210	0.2124	0.0348	0.3507	0.8903	0.0255	0.3032	0.0287	0.3405	
37	12.01	-8.11	0.6665	0.0247	0.2388	0.0370	0.3563	0.9008	0.0276	0.3029	0.0306	0.3362	
38	12.02	-8.85	0.7190	0.0286	0.2581	0.0398	0.3589	0.8943	0.0277	0.3022	0.0310	0.3379	
39	12.01	-9.66	0.7952	0.0330	0.2744	0.0415	0.3450	0.9044	0.0278	0.3042	0.0308	0.3363	
40	12.02	-10.42	0.8601	0.0374	0.2946	0.0435	0.3425	0.9059	0.0284	0.3047	0.0313	0.3363	
41	12.02	-11.22	0.9144	0.0431	0.3099	0.0472	0.3389	0.9062	0.0289	0.3049	0.0319	0.3364	
42	12.03	-11.95	0.9707	0.0447	0.3257	0.0460	0.3355	0.9140	0.0296	0.3088	0.0324	0.3378	
43	12.04	-12.76	1.0158	0.0523	0.3343	0.0515	0.3291	0.9142	0.0307	0.3062	0.0336	0.3350	
44	12.04	-13.52	0.9968	0.0589	0.3173	0.0591	0.3183	0.9400	0.0308	0.3112	0.0328	0.3311	
45	12.06	-14.40	1.0289	0.0541	0.3262	0.0526	0.3170	0.9433	0.0328	0.3131	0.0348	0.3319	
46	12.06	-15.23	1.0731	0.0556	0.3408	0.0518	0.3176	0.9563	0.0344	0.3125	0.0360	0.3267	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

 PAWE 3 OF 3
 SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		144	0.85	1.7	0.0	B2M0F12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	12.06	-16.05	1.1108	0.0615	0.3412	0.0554	0.3072	0.9343	0.0319	0.3064	0.0341	0.3280	
48	12.04	-16.84	1.1086	0.0652	0.3225	0.0588	0.2909	0.9378	0.0320	0.3107	0.0341	0.3313	
49	12.03	-17.70	0.8862	0.0569	0.2492	0.0640	0.2805	0.9549	0.0293	0.3190	0.0307	0.3341	
50	12.03	-18.55	0.8026	0.0361	0.2350	0.0450	0.2929	0.9463	0.0285	0.3184	0.0302	0.3365	
51	12.03	-19.42	0.7657	0.0288	0.2320	0.0376	0.3031	0.9446	0.0278	0.3182	0.0294	0.3368	
52	12.03	-20.17	0.6960	0.0272	0.2115	0.0391	0.3039	0.9593	0.0282	0.3177	0.0294	0.3311	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	145	0.85	1.7	0.0	82WOF12	0.0	0	0	0	U FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	15.11	19.88	2.5784	-5.1385	-3.6448	6.5276	-0.2220	0.0170	-1.9929	
2	15.11	19.49	2.5909	-5.0460	-3.7088	6.5352	-0.2050	0.0100	-1.9476	
3	15.11	18.76	2.7007	-5.2968	-3.4699	6.0908	-0.2250	0.0106	-1.9613	
4	15.12	17.91	2.7657	-5.3788	-3.3367	5.8542	-0.1930	0.0049	-1.9448	
5	15.12	17.08	2.6980	-5.2621	-3.2063	5.6456	-0.1270	-0.0094	-1.9503	
6	15.12	16.27	2.5995	-4.9001	-3.2462	5.9875	0.0280	-0.0415	-1.8850	
7	15.11	15.51	2.4940	-4.9024	-3.1404	6.0303	0.0790	-0.0518	-1.9657	
8	15.09	14.72	2.4729	-5.0808	-3.0312	5.8325	0.1300	-0.0366	-2.0546	
9	15.09	13.95	2.5465	-5.3508	-2.8204	5.5664	0.1560	-0.0266	-2.1013	
10	15.09	13.15	2.5900	-5.3797	-2.5760	5.1881	0.1580	-0.0342	-2.0771	
11	15.10	12.42	2.6224	-5.4261	-2.4056	4.9972	0.1710	-0.0278	-2.0692	
12	15.10	11.62	2.6538	-5.5040	-2.2630	4.5510	0.1590	-0.0163	-2.0740	
13	15.09	10.83	2.6806	-5.6337	-2.1489	4.2313	0.1540	-0.0085	-2.1016	
14	15.08	10.00	2.6592	-5.7525	-1.9506	3.9237	0.1820	0.0026	-2.1633	
15	15.07	9.21	2.6786	-5.9398	-1.8059	3.6191	0.2050	0.0108	-2.2175	
16	15.07	8.39	2.6930	-6.0240	-1.5886	3.2399	0.1890	0.0148	-2.2309	
17	15.07	7.59	2.7431	-6.1651	-1.4325	2.8416	0.1810	0.0190	-2.2475	
18	15.07	6.78	2.7870	-6.2845	-1.2478	2.3789	0.1820	0.0224	-2.2549	
19	15.07	6.01	2.8083	-6.3363	-1.0310	2.0627	0.1280	0.0281	-2.2563	
20	15.06	5.16	2.7809	-6.3800	-0.8588	1.6642	0.1090	0.0384	-2.2942	
21	15.05	4.37	2.7883	-6.4033	-0.7327	1.3027	0.1030	0.0412	-2.2965	
22	15.05	3.58	2.7801	-6.4389	-0.5886	1.0360	0.0960	0.0372	-2.3160	
23	15.04	2.85	2.8682	-6.8231	-0.5120	0.6809	0.0780	0.0324	-2.3789	
24	15.03	2.03	2.8905	-6.8924	-0.4018	0.5286	0.0660	0.0318	-2.3845	
25	15.03	1.28	2.8688	-6.9190	-0.2575	0.4824	0.0430	0.0410	-2.4118	
26	15.03	0.52	2.8668	-6.9042	-0.2013	0.3258	0.0360	0.0428	-2.4083	
27	15.03	-0.22	2.8663	-6.8995	-0.0865	0.1931	0.0400	0.0466	-2.4071	
28	15.03	-1.04	2.8752	-6.9119	0.0122	0.0299	0.0470	0.0423	-2.4040	
29	15.04	-1.84	2.8256	-6.6655	0.1176	-0.2056	0.0300	0.0428	-2.3590	
30	15.03	-2.66	2.8182	-6.5212	0.2717	-0.3573	-0.0110	0.0449	-2.3139	
31	15.02	-3.47	2.7961	-6.5562	0.4294	-0.6632	-0.0290	0.0480	-2.3448	
32	15.02	-4.29	2.7922	-6.5488	0.5447	-0.8956	-0.0520	0.0547	-2.3434	
33	15.03	-5.03	2.7643	-6.3777	0.6988	-1.2773	-0.0940	0.0560	-2.3071	
34	15.03	-5.83	2.7472	-6.2898	0.8625	-1.5844	-0.1040	0.0478	-2.2895	
35	15.03	-6.60	2.7089	-6.1772	1.0537	-1.9871	-0.1460	0.0526	-2.2803	
36	15.04	-7.42	2.6819	-6.0584	1.2486	-2.3470	-0.1440	0.0459	-2.2590	
37	15.04	-8.19	2.6477	-5.9004	1.4024	-2.6963	-0.1460	0.0494	-2.2285	
38	15.05	-9.00	2.6711	-5.8232	1.5413	-3.0527	-0.1070	0.0433	-2.1801	
39	15.06	-9.78	2.6582	-5.6552	1.6829	-3.4689	-0.0860	0.0429	-2.1275	
40	15.06	-10.61	2.6548	-5.6174	1.8325	-3.9633	-0.0910	0.0287	-2.1160	
41	15.06	-11.34	2.6582	-5.5732	1.9773	-4.1711	-0.0720	0.0315	-2.0966	
42	15.06	-12.13	2.5812	-5.4634	2.2104	-4.5594	-0.0810	0.0302	-2.1166	
43	15.06	-12.91	2.5920	-5.4145	2.2708	-4.7454	-0.0550	0.0286	-2.0890	
44	15.07	-13.73	2.6105	-5.3374	2.4443	-5.0308	-0.0360	0.0268	-2.0446	
45	15.08	-14.55	2.5777	-5.0625	2.6704	-5.3553	-0.0110	0.0229	-1.9640	
46	15.09	-15.42	2.5557	-4.8568	2.8841	-5.6436	0.0080	0.0128	-1.9004	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6 145 0.85 1.7 0.0 0.2 WOF 12 0.0 0 0 0 0 FIXED										
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	15.08	-16.20	2.5407	-4.9298	3.0087	-5.9340	0.0640	0.0075	-1.9403	
48	15.09	-17.01	2.6819	-5.1785	2.9773	-5.3681	0.1890	0.0650	-1.9309	
49	15.07	-17.91	2.7431	-5.5752	2.9887	-5.4960	0.2750	0.0452	-2.0324	
50	15.08	-18.78	2.6665	-5.3688	3.2297	-5.9004	0.3000	0.0523	-2.0135	
51	15.09	-19.57	2.7325	-5.3554	3.3658	-6.0109	0.3620	0.0592	-1.9598	

PAGE 2 OF 3
 SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	145	0.85 1.7	0.0	B2MUF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	15.11	19.88	-0.7685	0.0386	-0.2592	-0.0502	0.3372	1.1273	0.0465	0.3583	0.0413	0.3179
2	15.11	19.49	-0.7638	0.0382	-0.2554	-0.0501	0.3344	1.1179	0.0454	0.3552	0.0406	0.3177
3	15.11	18.76	-0.7623	0.0364	-0.2564	-0.0477	0.3364	1.1305	0.0449	0.3563	0.0397	0.3152
4	15.12	17.91	-0.7284	0.0374	-0.2468	-0.0514	0.3388	1.1293	0.0442	0.3555	0.0391	0.3148
5	15.12	17.08	-0.6483	0.0398	-0.2303	-0.0614	0.3553	1.1155	0.0423	0.3514	0.0380	0.3150
6	15.12	16.27	-0.5625	0.0394	-0.2032	-0.0701	0.3613	1.0891	0.0432	0.3446	0.0397	0.3164
7	15.11	15.51	-0.5076	0.0387	-0.1939	-0.0762	0.3821	1.0761	0.0440	0.3422	0.0408	0.3174
8	15.09	14.72	-0.4624	0.0383	-0.1790	-0.0829	0.3871	1.0609	0.0435	0.3377	0.0410	0.3183
9	15.09	13.95	-0.4081	0.0398	-0.1667	-0.0975	0.4084	1.0586	0.0424	0.3386	0.0401	0.3199
10	15.09	13.15	-0.3918	0.0383	-0.1591	-0.0977	0.4059	1.0525	0.0436	0.3332	0.0415	0.3166
11	15.10	12.42	-0.3507	0.0388	-0.1470	-0.1107	0.4190	1.0505	0.0432	0.3319	0.0411	0.3160
12	15.10	11.62	-0.3123	0.0384	-0.1419	-0.1229	0.4542	1.0456	0.0435	0.3297	0.0416	0.3153
13	15.09	10.83	-0.2789	0.0404	-0.1343	-0.1448	0.4816	1.0459	0.0439	0.3280	0.0420	0.3136
14	15.08	10.00	-0.2145	0.0407	-0.1053	-0.1854	0.4799	1.0190	0.0433	0.3235	0.0425	0.3174
15	15.07	9.21	-0.1493	0.0460	-0.0890	-0.2682	0.5964	1.0155	0.0435	0.3210	0.0428	0.3161
16	15.07	8.39	-0.1208	0.0387	-0.0800	-0.3207	0.6627	1.0040	0.0442	0.3186	0.0441	0.3173
17	15.07	7.59	-0.0918	0.0398	-0.0728	-0.4335	0.7929	0.9944	0.0447	0.3168	0.0449	0.3185
18	15.07	6.78	-0.0427	0.0431	-0.0557	-1.0104	1.3051	0.9880	0.0458	0.3116	0.0464	0.3154
19	15.07	6.01	-0.0656	0.0502	-0.0645	-0.7639	0.9441	0.9830	0.0462	0.3114	0.0470	0.3167
20	15.06	5.16	-0.0232	0.0536	-0.0580	-2.3121	2.5013	0.9724	0.0454	0.3066	0.0467	0.3153
21	15.05	4.37	0.0304	0.0540	-0.0446	1.7776	-1.4661	0.9554	0.0482	0.3070	0.0504	0.3213
22	15.05	3.58	0.0491	0.0505	-0.0323	1.0293	-0.6586	0.9612	0.0467	0.3119	0.0486	0.3245
23	15.04	2.85	0.1021	0.0364	-0.0055	0.3564	-0.0076	1.0093	0.0324	0.3363	0.0321	0.3332
24	15.03	2.03	0.1035	0.0243	-0.0007	0.2352	-0.0069	0.9847	0.0297	0.3321	0.0302	0.3373
25	15.03	1.28	0.0424	0.0152	-0.0050	0.3596	-0.1173	0.9710	0.0319	0.3251	0.0329	0.3348
26	15.03	0.52	0.0391	0.0005	-0.0007	0.0141	-0.0172	0.9394	0.0319	0.3149	0.0340	0.3352
27	15.03	-0.22	0.0217	-0.0135	0.0119	-0.6243	0.5498	0.9112	0.0312	0.3059	0.0343	0.3357
28	15.03	-1.04	0.0383	-0.0383	0.0440	-0.9998	1.1478	0.8789	0.0277	0.2943	0.0315	0.3348
29	15.04	-1.84	0.0521	-0.0502	0.0530	-0.9634	1.0165	0.8506	0.0256	0.2866	0.0301	0.3370
30	15.03	-2.66	0.0243	-0.0583	0.0561	-2.3987	2.3085	0.8315	0.0231	0.2801	0.0278	0.3368
31	15.02	-3.47	0.0152	-0.0631	0.0542	-4.1539	3.5635	0.8153	0.0220	0.2745	0.0270	0.3366
32	15.02	-4.29	0.0200	-0.0643	0.0500	-3.2169	2.4982	0.7994	0.0207	0.2711	0.0259	0.3391
33	15.03	-5.03	0.0156	-0.0605	0.0542	-3.8775	3.4742	0.7842	0.0195	0.2646	0.0249	0.3374
34	15.03	-5.83	0.0252	-0.0553	0.0538	-2.1960	2.1348	0.7686	0.0191	0.2595	0.0249	0.3376
35	15.03	-6.60	0.0277	-0.0480	0.0460	-1.7343	1.6617	0.7599	0.0191	0.2567	0.0252	0.3378
36	15.04	-7.42	0.0851	-0.0448	0.0689	-0.5269	0.8103	0.7342	0.0155	0.2495	0.0211	0.3399
37	15.04	-8.19	0.1400	-0.0432	0.0785	-0.3085	0.5611	0.7188	0.0118	0.2456	0.0164	0.3417
38	15.05	-9.00	0.2127	-0.0456	0.1073	-0.2146	0.5043	0.6754	0.0027	0.2357	0.0040	0.3491
39	15.06	-9.78	0.2838	-0.0441	0.1282	-0.1555	0.4516	0.6338	-0.0064	0.2267	-0.0102	0.3577
40	15.06	-10.61	0.3168	-0.0460	0.1366	-0.1451	0.4310	0.6393	-0.0099	0.2272	-0.0156	0.3554
41	15.06	-11.34	0.3800	-0.0422	0.1525	-0.1110	0.4024	0.5862	-0.0165	0.2157	-0.0282	0.3680
42	15.06	-12.13	0.3788	-0.0424	0.1595	-0.1120	0.4222	0.5802	-0.0194	0.2141	-0.0334	0.3691
43	15.06	-12.91	0.4380	-0.0430	0.1691	-0.0981	0.3859	0.5484	-0.0261	0.2109	-0.0477	0.3846
44	15.07	-13.73	0.4593	-0.0443	0.1818	-0.0965	0.3459	0.5577	-0.0285	0.2111	-0.0511	0.3786
45	15.08	-14.55	0.4888	-0.0411	0.1907	-0.0841	0.3901	0.4974	-0.0331	0.1970	-0.0666	0.3961
46	15.09	-15.42	0.5486	-0.0394	0.1998	-0.0719	0.3642	0.4536	-0.0375	0.1845	-0.0827	0.4088

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
 6 145 0.85 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED

PGINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
47	15.08	-16.20	0.6538	-0.0362	0.2283	-0.0554	0.3493	0.4498	-0.0423	0.1831	-0.0941	0.4070
48	15.09	-17.01	0.6698	-0.0418	0.2318	-0.0625	0.3461	0.4195	-0.0479	0.1785	-0.1141	0.4254
49	15.07	-17.91	0.8103	-0.0340	0.2664	-0.0419	0.3288	0.4456	-0.0487	0.1858	-0.1094	0.4169
50	15.08	-18.78	0.8091	-0.0430	0.2725	-0.0531	0.3368	0.5050	-0.0515	0.2049	-0.1019	0.4057
51	15.09	-19.57	0.8357	-0.0469	0.2754	-0.0561	0.3295	0.3849	-0.0561	0.1728	-0.1457	0.4488

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION		
6	145	0.85	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	15.11	19.88	-0.7903	-0.0266	-0.2824	0.0336	0.3574	0.5288	-0.0552	0.2123	-0.1044	0.4015
2	15.11	19.49	-0.7681	-0.0271	-0.2845	0.0344	0.3610	0.5355	-0.0547	0.2174	-0.1022	0.4060
3	15.11	18.76	-0.8044	-0.0341	-0.2864	0.0424	0.3561	0.4887	-0.0552	0.2043	-0.1129	0.4181
4	15.12	17.91	-0.8469	-0.0506	-0.2853	0.0548	0.3369	0.4890	-0.0563	0.2016	-0.1152	0.4123
5	15.12	17.08	-0.9015	-0.0570	-0.2952	0.0633	0.3274	0.5175	-0.0556	0.2089	-0.1075	0.4037
6	15.12	16.27	-1.0367	-0.0635	-0.3455	0.0613	0.3333	0.5717	-0.0499	0.2156	-0.0873	0.3771
7	15.11	15.51	-1.0608	-0.0578	-0.3743	0.0545	0.3528	0.5694	-0.0452	0.2144	-0.0747	0.3766
8	15.09	14.72	-1.0222	-0.0559	-0.3639	0.0547	0.3560	0.6217	-0.0353	0.2250	-0.0568	0.3618
9	15.09	13.95	-0.9777	-0.0597	-0.3542	0.0610	0.3623	0.6625	-0.0317	0.2339	-0.0479	0.3531
10	15.09	13.15	-0.9879	-0.0527	-0.3668	0.0534	0.3713	0.6393	-0.0283	0.2298	-0.0443	0.3595
11	15.10	12.42	-0.9403	-0.0424	-0.3707	0.0451	0.3942	0.6722	-0.0222	0.2318	-0.0331	0.3448
12	15.10	11.62	-0.8719	-0.0385	-0.3517	0.0442	0.4034	0.6787	-0.0182	0.2319	-0.0268	0.3418
13	15.09	10.83	-0.8209	-0.0360	-0.3362	0.0439	0.4096	0.6892	-0.0135	0.2382	-0.0196	0.3457
14	15.08	10.00	-0.7537	-0.0332	-0.3173	0.0441	0.4210	0.7456	-0.0029	0.2449	-0.0039	0.3285
15	15.07	9.21	-0.6818	-0.0304	-0.3010	0.0446	0.4414	0.7583	0.0042	0.2524	0.0055	0.3328
16	15.07	8.39	-0.6155	-0.0266	-0.2796	0.0432	0.4542	0.7814	0.0080	0.2538	0.0103	0.3248
17	15.07	7.59	-0.5405	-0.0240	-0.2543	0.0445	0.4705	0.8111	0.0109	0.2580	0.0134	0.3181
18	15.07	6.78	-0.4672	-0.0229	-0.2262	0.0490	0.4841	0.8174	0.0128	0.2632	0.0157	0.3220
19	15.07	6.01	-0.3761	-0.0214	-0.2011	0.0569	0.5347	0.8174	0.0129	0.2632	0.0158	0.3220
20	15.06	5.16	-0.2940	-0.0193	-0.1743	0.0656	0.5927	0.8159	0.0163	0.2641	0.0200	0.3237
21	15.05	4.37	-0.2485	-0.0162	-0.1480	0.0654	0.5956	0.8258	0.0211	0.2698	0.0256	0.3267
22	15.05	3.58	-0.1899	-0.0133	-0.1232	0.0700	0.6486	0.8415	0.0241	0.2725	0.0287	0.3238
23	15.04	2.85	-0.1186	-0.0108	-0.1001	0.0915	0.8442	0.8835	0.0244	0.2825	0.0333	0.3197
24	15.03	2.03	-0.0645	-0.0083	-0.0748	0.1244	1.1596	0.9216	0.0306	0.2907	0.0332	0.3154
25	15.03	1.26	-0.0212	-0.0067	-0.0530	0.3160	2.4983	0.9396	0.0303	0.2971	0.0323	0.3162
26	15.03	0.52	0.0277	-0.0047	-0.0253	-0.1696	-0.4123	0.9694	0.0313	0.3066	0.0323	0.3163
27	15.03	-0.22	0.0748	-0.0035	-0.0049	-0.0439	-0.0815	0.9895	0.0313	0.3151	0.0316	0.3185
28	15.03	-1.04	0.1332	-0.0012	0.0213	-0.0090	0.1598	0.9914	0.0410	0.3101	0.0413	0.3127
29	15.04	-1.84	0.1750	-0.0005	0.0448	-0.0629	0.2561	0.9660	0.0449	0.2990	0.0465	0.3095
30	15.03	-2.66	0.2336	0.0032	0.0695	0.0139	0.2977	0.9667	0.0436	0.2939	0.0451	0.3040
31	15.02	-3.47	0.2854	0.0062	0.0599	0.0217	0.3500	0.9799	0.0438	0.2981	0.0447	0.3042
32	15.02	-4.29	0.3574	0.0106	0.1240	0.0296	0.3469	0.9809	0.0411	0.2981	0.0419	0.3039
33	15.03	-5.03	0.4245	0.0135	0.1486	0.0319	0.3499	0.9768	0.0405	0.2978	0.0414	0.3049
34	15.03	-5.83	0.4962	0.0176	0.1733	0.0355	0.3493	0.9890	0.0415	0.3003	0.0420	0.3036
35	15.03	-6.60	0.5758	0.0205	0.1993	0.0366	0.3461	0.9609	0.0418	0.3009	0.0426	0.3067
36	15.04	-7.42	0.6368	0.0231	0.2297	0.0363	0.3607	0.9991	0.0413	0.3037	0.0414	0.3040
37	15.04	-8.19	0.7158	0.0271	0.2489	0.0379	0.3477	0.9947	0.0418	0.3027	0.0421	0.3043
38	15.05	-9.00	0.7615	0.0297	0.2694	0.0390	0.3538	1.0118	0.0418	0.3054	0.0413	0.3018
39	15.06	-9.78	0.8447	0.0332	0.2851	0.0393	0.3375	1.0234	0.0416	0.3059	0.0407	0.2989
40	15.06	-10.61	0.9059	0.0388	0.3088	0.0429	0.3408	1.0398	0.0436	0.3086	0.0419	0.2968
41	15.06	-11.34	0.9571	0.0415	0.3266	0.0434	0.3413	1.0489	0.0432	0.3109	0.0412	0.2964
42	15.06	-12.13	1.0145	0.0470	0.3410	0.0463	0.3362	1.0400	0.0432	0.3112	0.0416	0.2992
43	15.06	-12.91	1.0311	0.0603	0.3338	0.0585	0.3237	1.0393	0.0431	0.3144	0.0415	0.3025
44	15.07	-13.73	1.0496	0.0593	0.3301	0.0565	0.3145	1.0564	0.0432	0.3165	0.0409	0.2996
45	15.08	-14.55	1.0977	0.0573	0.3419	0.0522	0.3114	1.0557	0.0437	0.3189	0.0414	0.3021
46	15.09	-15.42	1.1372	0.0600	0.3487	0.0528	0.3067	1.0606	0.0429	0.3183	0.0405	0.3001

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	145	0.85	1.7	0.0	BZM0112	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	15.08	-16.20	1.1431	0.0649	0.3417	0.0568	0.2989	1.0588	0.0474	0.3218	0.0448	0.3039
48	15.09	-17.01	0.9841	0.0597	0.2776	0.0607	0.2821	1.0850	0.0457	0.3266	0.0422	0.3011
49	15.07	-17.91	0.9328	0.0563	0.2627	0.0603	0.2817	1.1075	0.0487	0.3268	0.0440	0.2951
50	15.08	-18.78	0.8330	0.0307	0.2543	0.0369	0.3053	1.1022	0.0507	0.3352	0.0460	0.3041
51	15.09	-19.57	0.8300	0.0263	0.2521	0.0317	0.3037	1.1170	0.0512	0.3374	0.0458	0.3021

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	146	0.85	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	18.13	19.92	2.9896	-5.5503	-3.6810	6.4772	-0.0760	-0.0558	-1.8585	
2	18.13	19.57	3.0331	-5.6232	-3.6486	6.4479	-0.0700	-0.0662	-1.8539	
3	18.14	18.85	3.1520	-5.7736	-3.3707	5.9958	-0.0870	-0.0601	-1.8317	
4	18.14	18.01	3.1392	-5.7667	-3.3952	5.9051	-0.0570	-0.0633	-1.8364	
5	18.14	17.17	3.1900	-5.4028	-3.1577	5.5366	0.0050	-0.0631	-1.8504	
6	18.14	16.35	3.0478	-5.5608	-3.2177	6.0186	0.1730	-0.0647	-1.8245	
7	18.14	15.57	3.0276	-5.4325	-3.1587	5.9330	0.2250	-0.0718	-1.7943	
8	18.13	14.79	3.0706	-5.6677	-2.9855	5.6875	0.2310	-0.0713	-1.8458	
9	18.13	14.00	3.1734	-5.4645	-2.7088	5.3422	0.2230	-0.0522	-1.8795	
10	18.13	13.20	3.1610	-5.8862	-2.6100	5.2207	0.2880	-0.0426	-1.8621	
11	18.13	12.42	3.1284	-5.9315	-2.5412	5.0184	0.3200	-0.0328	-1.8960	
12	18.11	11.63	3.0541	-6.0785	-2.4781	4.9141	0.3490	-0.0296	-1.9903	
13	18.10	10.84	3.1419	-6.3284	-2.2576	4.4545	0.3480	-0.0220	-2.0142	
14	18.09	10.00	3.0756	-6.3876	-2.1007	4.3278	0.3720	-0.0101	-2.0769	
15	18.09	9.23	3.1390	-6.5413	-1.8734	3.8635	0.3510	-0.0072	-2.0839	
16	18.09	8.37	3.1590	-6.6523	-1.7155	3.4035	0.3330	0.0081	-2.1058	
17	18.08	7.59	3.2100	-6.8457	-1.5069	3.0565	0.3300	0.0028	-2.1326	
18	18.09	6.78	3.2221	-6.8346	-1.3120	2.6597	0.3010	0.0234	-2.1212	
19	18.08	5.97	3.2700	-6.9656	-1.1215	2.1500	0.2700	0.0172	-2.1302	
20	18.09	5.10	3.3646	-7.1341	-0.9090	1.6098	0.2160	0.0246	-2.1204	
21	18.07	4.32	3.4247	-7.6401	-0.8312	1.3046	0.2110	-0.0008	-2.2309	
22	18.06	3.51	3.4254	-7.7621	-0.7373	1.2382	0.2040	-0.0086	-2.2661	
23	18.06	2.78	3.4316	-7.8028	-0.5682	0.9715	0.1660	-0.0134	-2.2738	
24	18.05	1.97	3.4855	-7.9854	-0.3386	0.5790	0.0810	-0.0137	-2.2910	
25	18.06	1.20	3.4462	-7.7234	-0.2766	0.4652	0.0470	-0.0004	-2.2411	
26	18.06	0.45	3.4392	-7.7176	-0.1911	0.4205	0.0370	0.0163	-2.2440	
27	18.06	-0.32	3.4520	-7.6585	-0.1504	0.2685	0.0300	0.0095	-2.2765	
28	18.05	-1.14	3.5162	-8.0553	-0.0581	0.1073	0.0090	-0.0004	-2.2409	
29	18.02	-1.94	3.4926	-8.0173	0.0838	-0.1043	-0.0340	0.0057	-2.2955	
30	18.04	-2.77	3.4699	-7.8535	0.1930	-0.2592	-0.0580	0.0134	-2.2633	
31	18.03	-3.59	3.4400	-7.8147	0.4147	-0.5556	-0.1140	0.0207	-2.2717	
32	18.04	-4.42	3.3775	-7.6311	0.5398	-0.8787	-0.1220	0.0312	-2.2594	
33	18.05	-5.15	3.3311	-7.3081	0.7435	-1.2439	-0.1630	0.0494	-2.1939	
34	18.06	-5.98	3.2729	-7.0947	0.9470	-1.7107	-0.2190	0.0532	-2.1693	
35	18.05	-6.75	3.3101	-7.2308	1.0799	-1.9827	-0.2160	0.0300	-2.1845	
36	18.06	-7.59	3.2100	-6.7627	1.3078	-2.5659	-0.2500	0.0511	-2.1068	
37	18.06	-8.36	3.1904	-6.7282	1.4919	-2.8996	-0.2390	0.0349	-2.1089	
38	18.08	-9.19	3.1640	-6.4723	1.6660	-3.4292	-0.2590	0.0330	-2.0456	
39	18.07	-9.97	3.1911	-6.5962	1.8166	-3.5641	-0.2500	0.0137	-2.0671	
40	18.11	-10.76	3.1253	-5.8742	2.0486	-4.1829	-0.2690	0.0487	-1.8796	
41	18.12	-11.54	3.1325	-5.7883	2.1345	-4.5191	-0.2280	0.0429	-1.8478	
42	18.10	-12.33	3.0308	-5.7779	2.3435	-5.0377	-0.2420	0.0342	-1.9064	
43	18.09	-13.09	3.1172	-6.1218	2.4259	-5.0260	-0.1730	-0.0151	-1.9639	
44	18.10	-13.98	3.0503	-5.7802	2.6781	-5.3372	-0.1850	0.0020	-1.8950	
45	18.11	-14.80	3.0249	-5.5857	2.8174	-5.6772	-0.1740	-0.0170	-1.8466	
46	18.11	-15.63	3.0042	-5.5127	2.9796	-5.8822	-0.1490	-0.0289	-1.8390	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	146	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	ACP
47	18.11	-16.42	3.0456	-5.5897	2.9684	-5.4796	-0.0360	0.0013	-1.8353
48	18.11	-17.29	3.1743	-5.9348	3.0089	-5.3063	0.1070	0.0123	-1.8696
49	18.11	-18.16	3.1246	-5.7482	3.1634	-5.5406	0.1430	0.0054	-1.8397
50	18.12	-19.03	3.1169	-5.6425	3.3615	-5.7529	0.1810	0.0110	-1.8103
51	18.14	-19.82	3.1343	-5.3899	3.5239	-5.9694	0.2420	0.0109	-1.7196

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	146	0.85	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	GNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	18.13	19.92	-0.7844	0.0421	-0.2563	-0.0537	0.3267	0.0288	0.0408	-0.0443	1.4181	-1.5383
2	18.13	19.57	-0.7870	0.0407	-0.2626	-0.0517	0.3337	0.0282	0.0399	-0.0413	1.4146	-1.4647
3	18.14	18.85	-0.7567	0.0435	-0.2567	-0.0575	0.3393	-0.0013	0.0396	-0.0319	-30.4946	24.5640
4	18.14	18.01	-0.7105	0.0442	-0.2473	-0.0622	0.3481	0.0178	0.0395	-0.0403	2.2215	-2.2623
5	18.14	17.17	-0.6426	0.0470	-0.2275	-0.0731	0.3541	0.0507	0.0402	-0.0429	0.7937	-0.8463
6	18.14	16.35	-0.4737	0.0505	-0.1792	-0.1066	0.3784	0.0607	0.0401	-0.0563	0.6605	-0.9271
7	18.14	15.57	-0.4449	0.0528	-0.1837	-0.1186	0.4130	0.0256	0.0398	-0.0592	1.5564	-2.3113
8	18.13	14.79	-0.4243	0.0547	-0.1744	-0.1289	0.4110	0.0253	0.0395	-0.0504	1.5630	-1.9909
9	18.13	14.00	-0.4018	0.0563	-0.1729	-0.1401	0.4303	0.0762	0.0385	-0.0636	0.5052	-0.8348
10	18.13	13.20	-0.3643	0.0529	-0.1604	-0.1453	0.4402	0.0946	0.0388	-0.0774	0.4101	-0.8179
11	18.13	12.42	-0.2817	0.0497	-0.1315	-0.1763	0.4666	0.1215	0.0397	-0.0772	0.3267	-0.6355
12	18.11	11.63	-0.2231	0.0464	-0.1146	-0.2082	0.5139	0.2434	0.0474	-0.1177	0.1947	-0.4835
13	18.10	10.84	-0.1917	0.0432	-0.0955	-0.2253	0.4981	0.2293	0.0457	-0.1154	0.1995	-0.5032
14	18.09	10.00	-0.1806	0.0392	-0.0867	-0.2170	0.4799	0.0786	0.0395	-0.0760	0.5025	-0.9670
15	18.09	9.23	-0.1649	0.0450	-0.0928	-0.2731	0.5631	0.1222	0.0392	-0.0894	0.3211	-0.7314
16	18.09	8.37	-0.1490	0.0482	-0.0800	-0.3234	0.5372	0.1678	0.0411	-0.1051	0.2449	-0.6263
17	18.08	7.59	-0.0651	0.0487	-0.0554	-0.7479	0.8509	0.2633	0.0469	-0.1288	0.1781	-0.4894
18	18.09	6.78	-0.0624	0.0579	-0.0612	-0.9277	0.9806	0.2255	0.0433	-0.1380	0.1922	-0.6122
19	18.08	5.97	-0.0649	0.0634	-0.0663	-0.9775	1.0220	0.2535	0.0452	-0.1436	0.1783	-0.5666
20	18.09	5.10	0.0196	0.0660	-0.0443	-3.3667	-2.2586	0.3462	0.0547	-0.1435	0.1579	-0.4144
21	18.07	4.32	0.1278	0.0519	-0.0012	0.4064	-0.0095	0.2018	0.0564	-0.0887	0.2797	-0.4398
22	18.06	3.51	0.1097	0.0359	0.0110	0.3277	0.0999	0.0717	0.0564	-0.0719	0.7872	-1.0029
23	18.06	2.78	0.0932	0.0348	0.0029	0.3739	0.0306	0.0670	0.0561	-0.0665	0.8372	-0.9922
24	18.05	1.97	0.0256	0.0409	-0.0294	1.5974	-1.1473	0.0318	0.0562	-0.0595	1.7686	-1.8712
25	18.06	1.20	0.0273	0.0192	-0.0110	0.7032	-0.4030	0.1168	0.0551	-0.0706	0.4721	-0.6043
26	18.06	0.45	0.0197	-0.0044	0.0092	-0.2258	0.4652	0.1970	0.0547	-0.0888	0.2779	-0.4510
27	18.06	-0.32	-0.0008	-0.0287	0.0292	35.8686	-36.5418	0.2151	0.0538	-0.0929	0.2503	-0.4320
28	18.05	-1.14	0.0037	-0.0541	0.0563	-14.6325	15.2251	0.0320	0.0478	-0.0485	1.4935	-1.5168
29	18.02	-1.94	-0.0172	-0.0601	0.0442	3.4936	-2.5679	0.1669	0.0472	-0.0778	0.2828	-0.4661
30	18.04	-2.77	-0.0252	-0.0730	0.0528	2.8983	-2.0954	0.2731	0.0459	-0.1063	0.1680	-0.3892
31	18.03	-3.59	-0.0231	-0.0774	0.0625	3.3501	-2.7057	0.2250	0.0440	-0.1089	0.1957	-0.4841
32	18.04	-4.42	-0.0397	-0.0775	0.0568	1.9518	-1.4300	0.2818	0.0442	-0.1219	0.1569	-0.4327
33	18.05	-5.15	-0.0012	-0.0753	0.0646	62.7388	-53.8334	0.2601	0.0427	-0.1287	0.1641	-0.4949
34	18.06	-5.98	0.0050	-0.0697	0.0593	-13.9375	11.8532	0.1891	0.0422	-0.1127	0.2234	-0.5959
35	18.05	-6.75	0.0222	-0.0659	0.0650	-2.9702	2.9278	0.1458	0.0413	-0.1069	0.2836	-0.7333
36	18.06	-7.59	0.0931	-0.0650	0.0875	-0.6981	0.9401	0.1978	0.0389	-0.1335	0.1966	-0.6749
37	18.06	-8.36	0.1107	-0.0623	0.0900	-0.5631	0.8129	0.2292	0.0383	-0.1527	0.1673	-0.6663
38	18.08	-9.19	0.1735	-0.0635	0.1052	-0.3662	0.6295	0.1691	0.0356	-0.1520	0.2108	-0.8992
39	18.07	-9.97	0.1544	-0.0546	0.1005	-0.3536	0.6512	0.1819	0.0356	-0.1643	0.1960	-0.9032
40	18.11	-10.76	0.2938	-0.0646	0.1506	-0.2198	0.5125	0.1846	0.0289	-0.1869	0.1568	-1.0124
41	18.12	-11.54	0.3620	-0.0640	0.1668	-0.1767	0.4608	0.1065	0.0268	-0.1837	0.2516	-1.7250
42	18.10	-12.33	0.4331	-0.0669	0.1889	-0.1545	0.4362	0.1841	0.0237	-0.2028	0.1290	-1.1019
43	18.09	-13.09	0.4170	-0.0617	0.1862	-0.1479	0.4466	0.2224	0.0251	-0.2077	0.1131	-0.9339
44	18.10	-13.98	0.4324	-0.0676	0.1921	-0.1564	0.4442	0.2275	0.0228	-0.2143	0.1002	-0.9419
45	18.11	-14.80	0.4461	-0.0643	0.1944	-0.1442	0.4359	0.2177	0.0213	-0.2300	0.0981	-1.0568
46	18.11	-15.63	0.4968	-0.0630	0.2086	-0.1268	0.4200	0.1472	0.0188	-0.2321	0.1277	-1.5771

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	146	0.85 1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	18.11	-16.42	0.5723	-0.0552	0.2231	-0.0964	0.3898	0.1211	0.0179	-0.2519	0.1478	-2.0805
48	18.11	-17.29	0.6315	-0.0640	0.2377	-0.1013	0.3764	0.1876	0.0150	-0.2573	0.0802	-1.3720
49	18.11	-18.16	0.6568	-0.0637	0.2481	-0.0970	0.3778	0.1455	0.0152	-0.2681	0.1044	-1.8427
50	18.12	-19.03	0.6620	-0.0641	0.2480	-0.0968	0.3746	0.1080	0.0155	-0.2684	0.1440	-2.4853
51	18.14	-19.82	0.7267	-0.0616	0.2689	-0.0848	0.3701	0.0304	0.0148	-0.2824	0.4884	-9.2918

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		146	0.85	1.7	0.0	82WOF12	0.0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	18.13	19.92	-0.8361	-0.0288	-0.3047	0.0345	0.3644	0.6734	-0.0449	0.2500	-0.0667	0.3712
2	18.13	19.57	-0.8273	-0.0293	-0.3037	0.0355	0.3671	0.6999	-0.0440	0.2490	-0.0628	0.3558
3	18.14	18.85	-0.8283	-0.0318	-0.3034	0.0364	0.3663	0.6997	-0.0455	0.2514	-0.0651	0.3594
4	18.14	18.01	-0.8590	-0.0438	-0.3032	0.0510	0.3530	0.6665	-0.0477	0.2437	-0.0716	0.3656
5	18.14	17.17	-0.8734	-0.0567	-0.2992	0.0649	0.3426	0.7506	-0.0443	0.2664	-0.0591	0.3549
6	18.14	16.35	-1.0436	-0.0640	-0.3561	0.0613	0.3413	0.7301	-0.0457	0.2566	-0.0626	0.3514
7	18.14	15.57	-1.0845	-0.0572	-0.3851	0.0528	0.3551	0.6897	-0.0422	0.2454	-0.0612	0.3558
8	18.13	14.79	-1.0186	-0.0562	-0.3796	0.0552	0.3727	0.7141	-0.0373	0.2519	-0.0522	0.3528
9	18.13	14.00	-1.0089	-0.0622	-0.3761	0.0617	0.3728	0.7433	-0.0398	0.2579	-0.0469	0.3469
10	18.13	13.20	-0.9561	-0.0489	-0.3885	0.0491	0.3900	0.7633	-0.0284	0.2555	-0.0373	0.3348
11	18.13	12.42	-0.9461	-0.0444	-0.3820	0.0469	0.4037	0.7942	-0.0195	0.2665	-0.0246	0.3356
12	18.11	11.63	-0.8798	-0.0420	-0.3644	0.0477	0.4141	0.8337	-0.0105	0.2770	-0.0126	0.3323
13	18.10	10.84	-0.8187	-0.0392	-0.3466	0.0479	0.4233	0.8833	-0.0022	0.2824	-0.0025	0.3197
14	18.09	10.00	-0.7553	-0.0365	-0.3261	0.0483	0.4317	0.9470	0.0092	0.2983	0.0097	0.3150
15	18.09	9.23	-0.6755	-0.0311	-0.3096	0.0461	0.4583	0.9359	0.0083	0.3013	0.0089	0.3219
16	18.09	8.47	-0.5879	-0.0280	-0.2881	0.0476	0.4900	0.9486	0.0097	0.3021	0.0103	0.3185
17	18.08	7.59	-0.5248	-0.0264	-0.2663	0.0503	0.5073	0.9486	0.0139	0.3035	0.0147	0.3198
18	18.09	6.78	-0.4452	-0.0242	-0.2382	0.0544	0.5351	0.9589	0.0112	0.3031	0.0117	0.3161
19	18.08	5.97	-0.3664	-0.0219	-0.2086	0.0597	0.5692	0.9501	0.0107	0.3033	0.0113	0.3192
20	18.09	5.10	-0.2958	-0.0193	-0.1786	0.0654	0.6036	0.9663	0.0181	0.3038	0.0187	0.3137
21	18.07	4.32	-0.2401	-0.0170	-0.1535	0.0710	0.6393	1.0111	0.0285	0.3117	0.0282	0.3083
22	18.06	3.51	-0.1828	-0.0146	-0.1318	0.0801	0.7211	1.0474	0.0320	0.3232	0.0306	0.3086
23	18.06	2.78	-0.1090	-0.0108	-0.1075	0.0995	0.9901	1.0494	0.0327	0.3246	0.0311	0.3093
24	18.05	1.97	-0.0352	-0.0074	-0.0770	0.2102	2.1883	1.0625	0.0315	0.3277	0.0297	0.3085
25	18.06	1.20	0.0076	-0.0056	-0.0522	-0.7367	-6.8642	1.0175	0.0432	0.3100	0.0425	0.3046
26	18.06	0.45	0.0605	-0.0039	-0.0305	-0.0645	-0.5114	1.0410	0.0423	0.3152	0.0406	0.3028
27	18.06	-0.32	0.1063	-0.0028	-0.0046	-0.0263	-0.0431	1.0806	0.0461	0.3164	0.0426	0.2928
28	18.05	-1.14	0.1429	-0.0012	0.0171	-0.0086	0.1173	1.0793	0.0494	0.3164	0.0458	0.2932
29	18.02	-1.94	0.2071	0.0007	0.0462	0.0036	0.2231	1.0843	0.0495	0.3143	0.0456	0.2899
30	18.04	-2.77	0.2689	0.0040	0.0752	0.0149	0.2797	1.0672	0.0498	0.3100	0.0466	0.2905
31	18.03	-3.59	0.3192	0.0068	0.1013	0.0214	0.3172	1.0328	0.0483	0.3036	0.0468	0.2939
32	18.04	-4.42	0.3868	0.0120	0.1287	0.0311	0.3327	1.0474	0.0475	0.2995	0.0453	0.2860
33	18.05	-5.15	0.4535	0.0159	0.1571	0.0350	0.3464	0.9841	0.0460	0.2856	0.0468	0.2902
34	18.06	-5.98	0.5371	0.0194	0.1853	0.0362	0.3449	0.9688	0.0446	0.2764	0.0461	0.2853
35	18.05	-6.75	0.6096	0.0216	0.2047	0.0354	0.3440	0.9932	0.0460	0.2846	0.0463	0.2865
36	18.06	-7.59	0.6704	0.0242	0.2412	0.0362	0.3598	0.9397	0.0445	0.2671	0.0473	0.2843
37	18.06	-8.36	0.7599	0.0279	0.2603	0.0367	0.3426	0.9818	0.0461	0.2757	0.0470	0.2808
38	18.08	-9.19	0.8370	0.0328	0.2826	0.0392	0.3376	0.9294	0.0446	0.2637	0.0480	0.2837
39	18.07	-9.97	0.8845	0.0367	0.2990	0.0415	0.3381	1.0192	0.0493	0.2917	0.0484	0.2862
40	18.11	-10.76	0.9666	0.0385	0.3235	0.0399	0.3347	0.8575	0.0425	0.2437	0.0495	0.2841
41	18.12	-11.54	1.0323	0.0418	0.3411	0.0405	0.3304	0.9049	0.0455	0.2567	0.0503	0.2837
42	18.10	-12.33	1.0986	0.0451	0.3600	0.0410	0.3331	0.8852	0.0436	0.2515	0.0493	0.2841
43	18.09	-13.09	1.1013	0.0631	0.3485	0.0573	0.3168	1.0276	0.0507	0.2880	0.0494	0.2803
44	18.10	-13.98	1.1270	0.0581	0.3433	0.0515	0.3046	0.9692	0.0474	0.2710	0.0489	0.2796
45	18.11	-14.80	1.1626	0.0579	0.3585	0.0498	0.3084	1.0145	0.0507	0.2864	0.0500	0.2823
46	18.11	-15.63	1.2003	0.0617	0.3623	0.0514	0.3018	1.0109	0.0509	0.2821	0.0503	0.2790

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6													
6 146 0.85 1.7 0.0 82HOF12 0.0 DEL1 DEL2 DEL3 DEL4 TRANSITION													
0 0 0 0 0 0 0 0 0 0 0 0 0 0													
FIXED													
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	18.11	-16.42	1.1467	0.0657	0.3259	0.0573	0.2842	0.9804	0.0480	0.2756	0.0490	0.2811	
48	18.11	-17.29	0.9755	0.0572	0.2746	0.0586	0.2815	1.1171	0.0519	0.3113	0.0465	0.2787	
49	18.11	-18.16	0.9497	0.0394	0.2725	0.0415	0.2869	1.0711	0.0503	0.3010	0.0470	0.2810	
50	18.12	-19.03	0.9055	0.0276	0.2700	0.0305	0.2982	1.1187	0.0516	0.3143	0.0462	0.2809	
51	18.14	-19.82	0.8935	0.0248	0.2696	0.0277	0.3018	1.1210	0.0521	0.3114	0.0465	0.2778	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	147	0.85	1.7	0.0	B2HOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	21.23	19.70	3.7184	-5.8187	-3.7610	5.8563	0.0310	-0.1161	-1.5648	
2	21.23	19.32	3.7339	-5.8854	-3.6946	5.6994	0.0270	-0.1225	-1.5762	
3	21.23	18.52	3.6925	-5.7165	-3.7036	5.5710	0.0870	-0.0930	-1.5481	
4	21.23	17.69	3.8049	-5.9708	-3.4958	5.2061	0.1440	-0.0854	-1.5692	
5	21.22	16.85	3.7511	-6.0454	-3.2944	5.1950	0.2090	-0.0722	-1.6116	
6	21.23	16.09	3.7340	-5.9255	-3.2001	5.6600	0.3180	-0.0952	-1.5869	
7	21.20	15.24	3.4501	-5.7501	-3.4301	6.3379	0.4569	-0.0947	-1.6666	
8	21.18	14.49	3.6010	-6.3593	-2.9795	5.7561	0.3670	-0.0956	-1.7660	
9	21.18	13.68	3.6587	-6.5610	-2.7726	5.4515	0.4019	-0.0786	-1.7933	
10	21.17	12.92	3.5816	-6.5191	-2.6926	5.3305	0.4219	-0.0619	-1.8201	
11	21.17	12.11	3.5380	-6.4401	-2.5554	5.4253	0.4649	-0.0646	-1.8202	
12	21.15	11.30	3.5948	-6.7855	-2.3158	4.8529	0.4059	-0.0406	-1.8876	
13	21.15	10.48	3.4907	-6.5648	-2.3185	4.9257	0.5009	-0.0394	-1.8806	
14	21.15	9.68	3.5212	-6.6335	-2.0807	4.5208	0.4639	-0.0230	-1.8839	
15	21.15	8.84	3.5198	-6.5946	-1.9317	4.2722	0.4629	-0.0093	-1.8735	
16	21.14	8.03	3.5058	-6.5690	-1.8096	4.0512	0.5139	-0.0091	-1.8737	
17	21.14	7.18	3.5166	-6.6651	-1.6320	3.6426	0.4049	-0.0036	-1.8953	
18	21.14	6.41	3.5535	-6.7837	-1.3639	3.0953	0.4329	0.0058	-1.9090	
19	21.14	5.55	3.6603	-7.0562	-1.2513	2.6847	0.4569	-0.0078	-1.9278	
20	21.14	4.72	3.7433	-7.1654	-1.1197	2.1794	0.4339	0.0041	-1.9142	
21	21.13	3.91	3.6663	-7.1956	-0.9781	2.2442	0.4249	0.0091	-1.9626	
22	21.12	3.16	3.7327	-7.4665	-0.7588	1.8822	0.3590	0.0046	-2.0003	
23	21.09	2.34	3.7474	-7.5961	-0.5876	1.3866	0.3000	0.0007	-2.0270	
24	21.08	1.56	3.9438	-8.2389	-0.3379	0.7630	0.1500	-0.0731	-2.0891	
25	21.08	0.77	4.1102	-8.7688	-0.2135	0.4638	0.0590	-0.0834	-2.1335	
26	21.07	0.02	4.0824	-8.8339	-0.1161	0.2995	-0.0130	-0.0793	-2.1639	
27	21.08	-0.78	3.9695	-8.4369	0.0511	-0.1595	-0.1110	-0.0535	-2.1254	
28	21.09	-1.63	3.9031	-8.1370	0.1937	-0.4021	-0.1880	-0.0201	-2.0848	
29	21.10	-2.44	3.8335	-7.7666	0.3940	-1.0066	-0.2940	0.0277	-2.0260	
30	21.10	-3.31	3.7860	-7.5291	0.6511	-1.4985	-0.3700	0.0351	-1.9887	
31	21.11	-4.12	3.7279	-7.4008	0.7273	-1.6861	-0.4029	0.0330	-1.9852	
32	21.11	-4.93	3.6597	-7.1073	0.8271	-2.0128	-0.4029	0.0415	-1.9474	
33	21.12	-5.66	3.6632	-7.0463	1.1227	-2.3976	-0.4489	0.0414	-1.9235	
34	21.12	-6.52	3.6330	-6.9820	1.2368	-2.6864	-0.4349	0.0225	-1.9218	
35	21.11	-7.32	3.6814	-7.1997	1.3337	-2.7521	-0.4429	0.0021	-1.9557	
36	21.11	-8.09	3.6683	-7.1354	1.5321	-3.0628	-0.4224	-0.0063	-1.9346	
37	21.12	-8.93	3.6526	-7.0034	1.6524	-3.5482	-0.4149	-0.0088	-1.9174	
38	21.12	-9.74	3.6230	-6.8640	1.9328	-3.9078	-0.4089	-0.0283	-1.8945	
39	21.14	-10.52	3.6034	-6.7236	2.1166	-4.3511	-0.4339	-0.0338	-1.8659	
40	21.14	-11.31	3.5845	-6.5231	2.2672	-4.6829	-0.4219	-0.0453	-1.8198	
41	21.15	-12.10	3.5439	-6.3793	2.4420	-5.1215	-0.4359	-0.0492	-1.8001	
42	21.16	-12.87	3.6488	-6.4402	2.5946	-5.1192	-0.3859	-0.0498	-1.7650	
43	21.14	-13.71	3.5963	-6.4057	2.6892	-5.1488	-0.3190	-0.0549	-1.7812	
44	21.14	-14.57	3.5724	-6.2872	2.9116	-5.5051	-0.3140	-0.0724	-1.7599	
45	21.17	-15.43	3.5236	-5.9450	3.0901	-5.7819	-0.3270	-0.0761	-1.6872	
46	21.16	-16.19	3.5804	-6.1764	3.0706	-5.1417	-0.2070	-0.0907	-1.7251	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	147	0.85	1.7	0.0	82WUFL2	0.0	0	0	0	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	21.16	-17.07	3.6243	-6.1989	3.1969	-5.1285	-0.1240	-0.0637	-1.7104
48	21.17	-17.95	3.5362	-5.8776	3.3522	-5.4659	-0.0680	-0.0783	-1.6621
49	21.19	-18.83	3.5753	-5.7444	3.5166	-5.5332	0.0020	-0.0892	-1.6067
50	21.20	-19.64	3.5776	-5.4826	3.7189	-5.6414	0.0630	-0.1076	-1.5325

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	OEL3	DEL4	TRANSITION		
6	1.47	0.85	1.7	0.0	82WOF.12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNFI	CHI	LB1	XCPI1	YCPI1	CNF2	CH2	CB2	XCPI2	YCPI2
1	21.23	19.70	-0.7672	0.0430	-0.2572	-0.0561	0.3353	0.3809	0.0428	-0.1412	0.1124	-0.3707
2	21.23	19.32	-0.7075	0.0466	-0.2488	-0.0658	0.3517	0.3813	0.0426	-0.1414	0.1118	-0.3708
3	21.23	18.52	-0.5304	0.0543	-0.2037	-0.1024	0.3841	0.3811	0.0420	-0.1476	0.1102	-0.3871
4	21.23	17.69	-0.5884	0.0565	-0.1885	-0.1156	0.3868	0.3576	0.0420	-0.1496	0.1174	-0.4183
5	21.22	16.85	-0.4293	0.0592	-0.1757	-0.1378	0.4091	0.3444	0.0422	-0.1572	0.1225	-0.4563
6	21.23	16.09	-0.3935	0.0568	-0.1622	-0.1444	0.4122	0.3436	0.0428	-0.1660	0.1247	-0.4832
7	21.20	15.24	-0.3166	0.0491	-0.1277	-0.1552	0.4033	0.3168	0.0432	-0.1713	0.1363	-0.5406
8	21.18	14.49	-0.4546	0.0539	-0.1842	-0.1185	0.4051	0.3241	0.0431	-0.1661	0.1331	-0.5126
9	21.18	13.68	-0.4346	0.0553	-0.1725	-0.1272	0.3969	0.3049	0.0432	-0.1708	0.1416	-0.5602
10	21.17	12.92	-0.3949	0.0559	-0.1706	-0.1415	0.4319	0.3036	0.0435	-0.1814	0.1432	-0.5973
11	21.17	12.11	-0.3440	0.0511	-0.1422	-0.1485	0.4134	0.2572	0.0440	-0.1857	0.1712	-0.7220
12	21.15	11.30	-0.3571	0.0597	-0.1563	-0.1671	0.4376	0.2085	0.0432	-0.1876	0.2072	-0.8999
13	21.15	10.48	-0.2358	0.0498	-0.1080	-0.2114	0.4579	0.1537	0.0433	-0.1931	0.2817	-1.2569
14	21.15	9.68	-0.2616	0.0581	-0.1284	-0.2222	0.4911	0.0878	0.0431	-0.2010	0.4908	-2.2898
15	21.15	8.84	-0.2557	0.0620	-0.1321	-0.2424	0.5166	0.1265	0.0434	-0.2155	0.3430	-1.7039
16	21.14	8.03	-0.1244	0.0514	-0.0665	-0.4131	0.5350	0.0901	0.0441	-0.2202	0.4894	-2.4448
17	21.14	7.18	-0.1335	0.0602	-0.0811	-0.4509	0.6074	0.0979	0.0442	-0.2248	0.4514	-2.2970
18	21.14	6.41	-0.1114	0.0650	-0.0778	-0.5050	0.6044	0.1127	0.0443	-0.2306	0.3930	-2.0466
19	21.14	5.55	-0.0817	0.0516	-0.0331	-4.5299	2.9034	0.1366	0.0443	-0.2233	0.3246	-1.6353
20	21.14	4.72	0.0064	0.0550	-0.0306	8.6000	-4.7762	0.1721	0.0443	-0.2225	0.2577	-1.2932
21	21.13	3.91	-0.0326	0.0515	-0.0385	-1.5810	1.1798	0.1219	0.0447	-0.2258	0.3666	-1.8530
22	21.12	3.16	-0.0285	0.0515	-0.0365	-1.8067	1.2806	0.1810	0.0452	-0.2180	0.2500	-1.2049
23	21.09	2.34	-0.0244	0.0481	-0.0377	-1.9730	1.5463	0.1959	0.0458	-0.2015	0.2340	-1.0287
24	21.08	1.56	0.0187	0.0253	-0.0055	1.3554	-0.2925	0.2718	0.0545	-0.1033	0.2005	-0.3802
25	21.08	0.77	0.0026	0.0110	-0.0035	4.2452	-1.3591	0.1683	0.0554	-0.0663	0.3291	-0.3941
26	21.07	0.02	-0.0420	-0.0108	0.0040	0.2571	-0.0954	0.1718	0.0555	-0.0473	0.3233	-0.2756
27	21.08	-0.78	-0.0341	-0.0161	0.0039	0.4735	-0.1155	0.2420	0.0539	-0.0521	0.2229	-0.2151
28	21.09	-1.63	-0.0545	-0.0516	0.0399	0.9475	-0.7328	0.3654	0.0498	-0.0596	0.1362	-0.1631
29	21.10	-2.44	-0.0507	-0.0586	0.0365	1.1566	-0.7200	0.2681	0.0464	-0.0443	0.1732	-0.1651
30	21.10	-3.31	-0.0601	-0.0651	0.0338	1.0830	-0.5620	0.4092	0.0449	-0.0711	0.1098	-0.1737
31	21.11	-4.12	-0.0434	-0.0671	0.0208	0.7188	-0.2225	0.3496	0.0456	-0.0688	0.1304	-0.1967
32	21.11	-4.93	-0.0590	-0.0765	0.0427	1.2472	-0.7244	0.3908	0.0429	-0.0905	0.1099	-0.2316
33	21.12	-5.66	-0.0553	-0.0752	0.0478	1.3605	-0.8639	0.3574	0.0411	-0.0932	0.1151	-0.2606
34	21.12	-6.52	0.0034	-0.0743	0.0640	-21.8637	18.8332	0.3476	0.0392	-0.1074	0.1127	-0.3090
35	21.11	-7.32	-0.0082	-0.0708	0.0585	8.6326	-7.1302	0.3576	0.0392	-0.1134	0.1096	-0.3171
36	21.11	-8.09	0.0251	-0.0707	0.0642	-2.8182	2.7555	0.3441	0.0377	-0.1193	0.1097	-0.3466
37	21.12	-8.93	0.1117	-0.0721	0.1006	-0.6458	0.9008	0.2164	0.0345	-0.1174	0.1594	-0.5425
38	21.12	-9.74	0.1621	-0.0711	0.1147	-0.4388	0.7077	0.2958	0.0330	-0.1399	0.1115	-0.4728
39	21.14	-10.52	0.1683	-0.0671	0.1071	-0.3989	0.6362	0.2929	0.0319	-0.1414	0.1089	-0.4828
40	21.14	-11.31	0.2222	-0.0668	0.1279	-0.3008	0.5758	0.3219	0.0292	-0.1614	0.0908	-0.5013
41	21.15	-12.10	0.2354	-0.0624	0.1317	-0.2650	0.5596	0.3583	0.0275	-0.1726	0.0767	-0.4818
42	21.16	-12.87	0.2935	-0.0617	0.1536	-0.2103	0.5233	0.2866	0.0242	-0.1802	0.0846	-0.6288
43	21.14	-13.71	0.3378	-0.0688	0.1632	-0.2036	0.4830	0.3514	0.0226	-0.1942	0.0644	-0.5527
44	21.14	-14.57	0.3579	-0.0692	0.1799	-0.1933	0.5025	0.2988	0.0209	-0.2031	0.0699	-0.6795
45	21.17	-15.43	0.3724	-0.0658	0.1784	-0.1766	0.4790	0.3227	0.0191	-0.2091	0.0592	-0.6479
46	21.16	-16.19	0.3989	-0.0647	0.1801	-0.1623	0.4515	0.3086	0.0184	-0.1980	0.0598	-0.6413

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 147 0.85 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	21.16	-17.07	0.4484	-0.0655	0.2007	-0.1460	0.4476	0.3227	0.0167	-0.2214	0.0517	-0.6860
48	21.17	-17.95	0.4835	-0.0644	0.2079	-0.1332	0.4300	0.2454	0.0168	-0.2298	0.0687	-0.9365
49	21.19	-18.83	0.5440	-0.0630	0.2188	-0.1159	0.4021	0.2363	0.0165	-0.2497	0.0698	-1.0570
50	21.20	-19.64	0.5915	-0.0604	0.2364	-0.1021	0.3996	0.1565	0.0171	-0.2652	0.1092	-1.6949

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH			AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			147	0.85	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	21.23	19.70	-0.8780	-0.0276	-0.3286	0.0315	0.3742	0.7590	-0.0380	0.2699	-0.0501	0.3556
2	21.23	19.32	-0.8761	-0.0278	-0.3259	0.0318	0.3720	0.7006	-0.0425	0.2581	-0.0606	0.3685
3	21.23	18.52	-0.8664	-0.0298	-0.3212	0.0344	0.3707	0.6550	-0.0512	0.2510	-0.0782	0.3833
4	21.23	17.69	-0.8932	-0.0507	-0.3138	0.0567	0.3513	0.7134	-0.0528	0.2677	-0.0739	0.3750
5	21.22	16.85	-0.9118	-0.0570	-0.3167	0.0625	0.3474	0.7704	-0.0510	0.2805	-0.0662	0.3641
6	21.23	16.09	-1.0992	-0.0611	-0.3911	0.0556	0.3558	0.7716	-0.0467	0.2769	-0.0605	0.3589
7	21.20	15.24	-1.1052	-0.0563	-0.4030	0.0510	0.3646	0.8703	-0.0337	0.2925	-0.0387	0.3361
8	21.18	14.49	-1.0513	-0.0564	-0.3920	0.0537	0.3729	0.8859	-0.0299	0.2986	-0.0337	0.3371
9	21.18	13.68	-1.0209	-0.0593	-0.3555	0.0581	0.3874	0.9155	-0.0284	0.3054	-0.0310	0.3335
10	21.17	12.92	-0.9885	-0.0471	-0.3591	0.0477	0.4037	0.9259	-0.0233	0.3091	-0.0252	0.3339
11	21.17	12.11	-0.9524	-0.0445	-0.3846	0.0468	0.4039	0.9907	-0.0093	0.3249	-0.0094	0.3280
12	21.15	11.30	-0.8623	-0.0390	-0.3645	0.0452	0.4232	0.9991	-0.0113	0.3269	-0.0113	0.3272
13	21.15	10.48	-0.7842	-0.0381	-0.3491	0.0486	0.4452	1.0382	0.0005	0.3333	0.0005	0.3211
14	21.15	9.68	-0.7064	-0.0339	-0.3263	0.0480	0.4619	1.0486	-0.0019	0.3359	-0.0019	0.3203
15	21.15	8.84	-0.6341	-0.0306	-0.3065	0.0482	0.4840	1.0385	-0.0024	0.3383	-0.0024	0.3258
16	21.14	8.03	-0.5745	-0.0287	-0.2894	0.0500	0.5038	1.0828	0.0098	0.3417	0.0090	0.3156
17	21.14	7.18	-0.4445	-0.0252	-0.2617	0.0510	0.5291	1.0622	0.0066	0.3420	0.0062	0.3220
18	21.14	6.41	-0.4162	-0.0231	-0.2301	0.0556	0.5528	1.0622	0.0049	0.3417	0.0047	0.3217
19	21.14	5.55	-0.3449	-0.0220	-0.2023	0.0628	0.5781	1.1035	0.0158	0.3453	0.0144	0.3129
20	21.14	4.72	-0.2815	-0.0190	-0.1762	0.0675	0.6258	1.1150	0.0172	0.3518	0.0154	0.3156
21	21.13	3.91	-0.2092	-0.0157	-0.1458	0.0750	0.7161	1.1441	0.0178	0.3611	0.0156	0.3156
22	21.12	3.16	-0.1532	-0.0124	-0.1237	0.0809	0.8078	1.1713	0.0212	0.3676	0.0181	0.3138
23	21.09	2.34	-0.0683	-0.0093	-0.0970	0.1361	1.4211	1.1656	0.0281	0.3583	0.0241	0.3074
24	21.08	1.56	-0.0237	-0.0069	-0.0666	0.2411	2.8100	1.1415	0.0401	0.3459	0.0351	0.3030
25	21.08	0.77	0.0305	-0.0051	-0.0388	-0.1672	-1.2733	1.1484	0.0434	0.3430	0.0378	0.2987
26	21.07	0.02	0.0790	-0.0030	-0.0089	-0.0380	-0.1124	1.1377	0.0462	0.3362	0.0406	0.2955
27	21.08	-0.78	0.1427	-0.0012	0.0145	-0.0088	0.1048	1.0244	0.0369	0.2992	0.0361	0.2920
28	21.09	-1.63	0.1971	0.0018	0.0498	0.0094	0.2525	0.8588	0.0269	0.2579	0.0313	0.3003
29	21.10	-2.44	0.2553	0.0041	0.0767	0.0161	0.3003	0.7557	0.0181	0.2306	0.0240	0.3052
30	21.10	-3.31	0.3479	0.0087	0.1037	0.0251	0.2982	0.7095	0.0185	0.2171	0.0261	0.3060
31	21.11	-4.12	0.3941	0.0128	0.1311	0.0325	0.3327	0.7363	0.0180	0.2179	0.0245	0.2960
32	21.11	-4.93	0.4609	0.0162	0.1556	0.0352	0.3376	0.6782	0.0166	0.2104	0.0245	0.3102
33	21.12	-5.66	0.5502	0.0196	0.1917	0.0357	0.3485	0.6768	0.0159	0.2066	0.0236	0.3053
34	21.12	-6.52	0.6081	0.0221	0.2202	0.0364	0.3622	0.7142	0.0153	0.2196	0.0214	0.3075
35	21.11	-7.32	0.6740	0.0250	0.2404	0.0368	0.3549	0.7783	0.0161	0.2327	0.0207	0.2990
36	21.11	-8.09	0.7406	0.0291	0.2657	0.0393	0.3507	0.7996	0.0159	0.2374	0.0199	0.2970
37	21.12	-8.93	0.8283	0.0319	0.2859	0.0385	0.3452	0.7696	0.0147	0.2338	0.0192	0.3039
38	21.12	-9.74	0.8930	0.0346	0.3104	0.0388	0.3475	0.8158	0.0162	0.2441	0.0199	0.2993
39	21.14	-10.52	0.9853	0.0402	0.3315	0.0408	0.3365	0.8289	0.0160	0.2441	0.0193	0.2945
40	21.14	-11.31	1.0597	0.0434	0.3490	0.0409	0.3293	0.8433	0.0163	0.2452	0.0194	0.2908
41	21.15	-12.10	1.1191	0.0481	0.3682	0.0430	0.3290	0.8548	0.0168	0.2518	0.0196	0.2945
42	21.16	-12.87	1.1528	0.0569	0.3886	0.0494	0.3198	0.8646	0.0159	0.2580	0.0184	0.2984
43	21.14	-13.71	1.1479	0.0597	0.3544	0.0520	0.3087	0.8875	0.0155	0.2620	0.0175	0.2953
44	21.14	-14.57	1.2015	0.0570	0.3710	0.0575	0.3087	0.9159	0.0152	0.2669	0.0166	0.2914
45	21.17	-15.43	1.2369	0.0632	0.3756	0.0511	0.3036	0.9122	0.0152	0.2686	0.0167	0.2944
46	21.16	-16.19	1.0529	0.0636	0.2958	0.0604	0.2809	0.9478	0.0142	0.2741	0.0150	0.2892

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 147 0.85 1.7 0.0 B2WOF12 0.0 0 0 0 0 0 FIXED												
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	21.16	-17.07	1.0144	0.0562	0.2842	0.0554	0.2802	0.9647	0.0138	0.2819	0.0144	0.2922
48	21.17	-17.95	0.9843	0.0352	0.2915	0.0358	0.2961	0.9840	0.0146	0.2827	0.0148	0.2873
49	21.19	-18.83	0.9669	0.0285	0.2890	0.0295	0.2989	0.9833	0.0147	0.2886	0.0149	0.2935
50	21.20	-19.64	0.9841	0.0250	0.2914	0.0254	0.2961	1.0166	0.0150	0.2912	0.0148	0.2864

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		148		0.92		1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
1	0.01	19.71	0.1734	-0.2137	-3.8867	8.4920	-0.0220	0.0569	-1.2328				
2	0.01	19.34	0.1571	-0.2599	-3.8245	8.4129	-0.0270	0.0567	-1.6546				
3	0.02	18.60	0.1523	-0.1002	-3.8092	8.3795	-0.0360	0.0457	-0.6580				
4	0.01	17.75	0.1164	0.0080	-3.6359	8.3365	-0.0380	0.0464	0.0691				
5	0.02	16.91	0.0870	0.1432	-3.4875	8.1291	-0.0140	0.0450	1.6460				
6	0.02	16.17	0.0622	0.1369	-3.3577	7.9083	-0.0050	0.0415	2.2013				
7	0.01	15.37	0.0327	0.1062	-3.1888	7.8609	-0.0130	0.0435	3.2483				
8	0.01	14.61	0.0350	0.1420	-3.0359	7.4318	-0.0020	0.0468	4.0571				
9	0.01	13.79	0.0032	0.1855	-2.8199	7.0485	0.0	0.0609	57.9750				
10	0.01	13.07	-0.0089	0.1834	-2.5944	6.6907	0.0	0.0671	-20.6135				
11	0.01	12.28	0.0195	0.1507	-2.4523	6.3128	0.0	0.0726	7.7282				
12	0.01	11.53	-0.0114	0.1239	-2.2970	5.9914	0.0	0.0800	-10.8737				
13	0.01	10.70	0.0092	0.0941	-2.0848	5.4924	0.0120	0.0910	10.2304				
14	0.0	9.90	-0.0159	0.1042	-1.9364	5.0757	0.0170	0.0921	-6.5572				
15	0.0	9.08	0.0053	0.0446	-1.7799	4.6855	0.0170	0.1019	8.4113				
16	0.0	8.31	-0.0046	0.0394	-1.5668	4.2412	0.0150	0.1107	-8.5739				
17	0.0	7.46	-0.0082	0.0245	-1.4671	3.8117	0.0180	0.1083	-2.9854				
18	0.0	6.70	-0.0170	0.0248	-1.2776	3.2905	0.0180	0.1140	-1.4588				
19	0.0	5.85	0.0053	-0.0164	-1.1008	2.8339	0.0110	0.1173	-3.0981				
20	0.0	5.07	0.0123	-0.0252	-0.8774	2.3082	0.0180	0.1230	-2.0504				
21	-0.01	4.25	0.0206	-0.0448	-0.7421	1.8588	0.0170	0.1221	-2.1767				
22	0.0	3.47	0.0264	-0.0450	-0.6147	1.5045	0.0120	0.1255	-1.7030				
23	-0.01	2.71	0.0149	-0.0399	-0.3916	1.0902	0.0120	0.1342	-2.6752				
24	-0.01	1.94	0.0141	-0.0217	-0.3311	0.7974	0.0130	0.1345	-1.5418				
25	0.0	1.13	0.0096	-0.0454	-0.2219	0.5036	0.0150	0.1448	-4.7333				
26	0.0	0.43	0.0104	-0.0466	-0.0881	0.2593	0.0120	0.1437	-4.4769				
27	-0.01	-0.33	0.0306	-0.0688	0.0240	-0.0246	0.0150	0.1402	-2.2497				
28	-0.01	-1.13	0.0419	-0.0886	0.1670	-0.2908	0.0090	0.1358	-2.1160				
29	0.0	-1.97	0.0333	-0.0546	0.2810	-0.6563	0.0110	0.1409	-1.6402				
30	0.0	-2.73	0.0321	-0.0719	0.4241	-0.8588	0.0090	0.1336	-2.2411				
31	-0.01	-3.59	0.0228	-0.0359	0.5264	-1.2919	0.0070	0.1318	-1.5754				
32	0.0	-4.41	0.0419	-0.0567	0.6908	-1.6820	0.0120	0.1240	-1.3523				
33	0.0	-5.20	0.0200	-0.0770	0.8048	-2.0336	0.0120	0.1163	-3.8500				
34	0.0	-5.94	0.0230	-0.0562	1.0089	-2.5853	0.0090	0.1286	-2.4435				
35	-0.02	-6.75	0.0330	-0.0742	1.1761	-3.0714	0.0150	0.1356	-2.2485				
36	0.0	-7.52	0.0234	-0.0777	1.3516	-3.4781	0.0090	0.1270	-3.3231				
37	-0.01	-8.36	0.0482	-0.1455	1.4854	-3.9653	0.0120	0.1335	-3.0183				
38	-0.01	-9.13	0.0287	-0.0982	1.6823	-4.3769	0.0080	0.1337	-3.4209				
39	-0.02	-9.94	0.0327	-0.1058	1.8592	-4.8195	0.0020	0.1370	-3.2349				
40	0.0	-10.69	0.0109	-0.0723	1.9923	-5.2160	-0.0020	0.1412	-6.6294				
41	-0.01	-11.49	0.0302	-0.1173	2.2664	-5.8446	-0.0080	0.1323	-3.8834				
42	0.0	-12.22	0.0023	-0.0262	2.3998	-6.2013	-0.0180	0.1297	-11.4000				
43	-0.01	-13.01	-0.0051	-0.0798	2.5600	-6.5536	-0.0230	0.1213	15.6588				
44	-0.02	-13.85	-0.0185	-0.0841	2.7913	-6.8745	-0.0340	0.1126	4.5459				
45	-0.01	-14.70	-0.0293	-0.0380	2.8988	-7.0460	-0.0260	0.1024	1.2962				
46	-0.01	-15.51	-0.0038	-0.0977	3.0711	-7.4071	-0.0250	0.1001	25.7052				

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 148 0.92 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	0.0	-16.32	-0.0170	-0.0262	3.2639	-7.7870	-0.0220	0.0989	1.5412		
48	-0.03	-17.14	0.0231	-0.2293	3.4202	-8.0418	0.0010	0.0917	-9.9281		
49	-0.01	-17.95	-0.0109	-0.1337	3.5586	-7.9457	-0.0170	0.0966	12.2697		
50	-0.01	-18.86	-0.0014	-0.0890	3.7031	-8.2320	-0.0140	0.0939	63.5999		
51	-0.02	-19.63	-0.0010	-0.1266	3.8958	-8.4697	-0.0040	0.0870	126.5999		
52	-0.02	-20.25	0.0191	-0.1937	4.0129	-8.6926	0.0030	0.0836	-10.1434		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		148	0.92	1.7	0.0	0.2	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2
1	0.01	19.71	-1.2372	-0.0375	-0.3179	0.0303	0.2569	-0.8344	0.0305	-0.3030	-0.0365	0.3632
2	0.01	19.34	-1.2172	-0.0376	-0.3202	0.0309	0.2631	-0.8206	0.0305	-0.3032	-0.0372	0.3695
3	0.02	18.60	-1.2136	-0.0370	-0.3185	0.0305	0.2624	-0.8267	0.0305	-0.3028	-0.0369	0.3662
4	0.01	17.75	-1.1906	-0.0360	-0.3155	0.0302	0.2650	-0.8237	0.0304	-0.3026	-0.0370	0.3673
5	0.02	16.91	-1.1652	-0.0380	-0.3080	0.0326	0.2643	-0.8768	0.0302	-0.2979	-0.0345	0.3397
6	0.02	16.17	-1.1247	-0.0344	-0.3089	0.0306	0.2746	-0.8538	0.0304	-0.3041	-0.0356	0.3562
7	0.01	15.37	-1.1269	-0.0223	-0.3207	0.0198	0.2846	-0.8699	0.0301	-0.3038	-0.0346	0.3492
8	0.01	14.61	-1.0756	-0.0206	-0.3066	0.0191	0.2851	-0.8733	0.0299	-0.3044	-0.0342	0.3486
9	0.01	13.79	-1.0156	-0.0199	-0.2976	0.0196	0.2931	-0.8520	0.0300	-0.3057	-0.0353	0.3588
10	0.01	13.07	-0.9688	-0.0162	-0.2901	0.0167	0.2995	-0.8774	0.0300	-0.3050	-0.0342	0.3476
11	0.01	12.28	-0.9289	-0.0097	-0.2830	0.0104	0.3047	-0.8544	0.0299	-0.3063	-0.0350	0.3585
12	0.01	11.53	-0.8762	-0.0082	-0.2724	0.0094	0.3109	-0.8322	0.0300	-0.3098	-0.0360	0.3723
13	0.01	10.70	-0.8100	-0.0063	-0.2582	0.0078	0.3188	-0.8730	0.0298	-0.3052	-0.0342	0.3496
14	0.0	9.90	-0.7532	-0.0049	-0.2434	0.0066	0.3231	-0.8674	0.0300	-0.3112	-0.0346	0.3588
15	0.0	9.08	-0.7127	-0.0038	-0.2281	0.0053	0.3200	-0.8538	0.0298	-0.3084	-0.0349	0.3612
16	0.0	8.31	-0.6597	-0.0029	-0.2150	0.0045	0.3259	-0.8459	0.0297	-0.3103	-0.0351	0.3668
17	0.0	7.46	-0.5730	-0.0017	-0.1970	0.0030	0.3449	-0.8676	0.0298	-0.3082	-0.0344	0.3552
18	0.0	6.70	-0.5231	-0.0022	-0.1724	0.0043	0.3296	-0.8974	0.0298	-0.3050	-0.0332	0.3399
19	0.0	5.85	-0.4398	-0.0033	-0.1566	0.0075	0.3559	-0.9131	0.0295	-0.3021	-0.0323	0.3308
20	0.0	5.07	-0.3760	-0.0059	-0.1285	0.0157	0.3417	-0.9473	0.0295	-0.2955	-0.0311	0.3119
21	-0.01	4.25	-0.3151	-0.0057	-0.1071	0.0181	0.3399	-0.9075	0.0296	-0.3020	-0.0326	0.3328
22	0.0	3.47	-0.4521	-0.0051	-0.0896	0.0202	0.3554	-0.9150	0.0294	-0.3029	-0.0321	0.3310
23	-0.01	2.71	-0.1785	-0.0035	-0.0689	0.0199	0.3459	-0.9055	0.0295	-0.3048	-0.0326	0.3366
24	-0.01	1.94	-0.1462	-0.0030	-0.0512	0.0205	0.3503	-0.9641	0.0295	-0.2988	-0.0306	0.3099
25	0.0	1.13	-0.0641	-0.0022	-0.0349	0.0343	0.5438	-0.9271	0.0295	-0.3014	-0.0318	0.3251
26	0.0	0.43	-0.0084	-0.0012	-0.0195	0.1428	2.3213	-0.9511	0.0297	-0.2998	-0.0312	0.3152
27	-0.01	-0.33	0.0110	-0.0004	0.0045	-0.0409	0.3150	-0.9663	0.0297	-0.2994	-0.0308	0.3098
28	-0.01	-1.13	0.0237	-0.0005	0.0203	-0.0232	0.8564	-0.9832	0.0296	-0.2964	-0.0301	0.3015
29	0.0	-1.97	0.1505	0.0002	0.0332	0.0013	0.2209	-0.9315	0.0298	-0.3058	-0.0320	0.3283
30	0.0	-2.73	0.1344	0.0	0.0618	0.0	0.4597	-0.9758	0.0299	-0.3021	-0.0306	0.3095
31	-0.01	-3.59	0.2611	0.0007	0.0715	0.0029	0.2739	-0.9585	0.0295	-0.3036	-0.0308	0.3167
32	0.0	-4.41	0.2786	-0.0007	0.0971	-0.0025	0.3486	-0.9877	0.0298	-0.3034	-0.0302	0.3072
33	0.0	-5.20	0.3096	-0.0015	0.1240	-0.0048	0.4004	-0.9285	0.0298	-0.3118	-0.0321	0.3358
34	0.0	-5.94	0.4288	-0.0021	0.1457	-0.0049	0.3397	-0.9505	0.0299	-0.3108	-0.0314	0.3270
35	-0.02	-6.75	0.5132	-0.0054	0.1672	-0.0106	0.3258	-0.9612	0.0305	-0.3139	-0.0318	0.3266
36	0.0	-7.52	0.5338	-0.0070	0.1856	-0.0131	0.3476	-0.9550	0.0300	-0.3147	-0.0314	0.3296
37	-0.01	-8.36	0.5922	-0.0082	0.2082	-0.0139	0.3516	-0.9491	0.0304	-0.3134	-0.0320	0.3302
38	-0.01	-9.13	0.6587	-0.0068	0.2219	-0.0103	0.3369	-0.9458	0.0306	-0.3178	-0.0323	0.3360
39	-0.02	-9.94	0.7277	-0.0065	0.2366	-0.0089	0.3251	-0.9134	0.0306	-0.3156	-0.0335	0.3455
40	0.0	-10.69	0.7532	-0.0042	0.2590	-0.0056	0.3438	-0.9721	0.0304	-0.3045	-0.0313	0.3133
41	-0.01	-11.49	0.8231	-0.0028	0.2738	-0.0034	0.3326	-0.9069	0.0307	-0.3130	-0.0339	0.3451
42	0.0	-12.22	0.8596	-0.0025	0.2876	-0.0030	0.3346	-0.9155	0.0300	-0.3046	-0.0328	0.3327
43	-0.01	-13.01	0.9106	0.0006	0.2932	0.0007	0.3220	-0.8994	0.0310	-0.3045	-0.0345	0.3386
44	-0.02	-13.85	0.9686	0.0033	0.2992	0.0035	0.3089	-0.8351	0.0315	-0.3143	-0.0377	0.3763
45	-0.01	-14.70	0.9940	0.0083	0.2994	0.0084	0.3012	-0.8899	0.0303	-0.3054	-0.0341	0.3432
46	-0.01	-15.51	1.0095	0.0087	0.3184	0.0086	0.3154	-0.8481	0.0299	-0.3078	-0.0352	0.3629

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION													
6	148	0.92	1.7	0.0	0.2	0.12	0.0	0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	0.0	-16.32	1.0998	0.0090	0.3205	0.0082	0.2914	-1.0095	0.0288	-0.2808	-0.0285	0.2781	
48	-0.03	-17.14	1.0754	0.0092	0.3415	0.0086	0.3176	-0.9097	0.0295	-0.2928	-0.0325	0.3219	
49	-0.01	-17.95	1.1499	0.0205	0.3157	0.0179	0.2745	-0.6903	0.0267	-0.3157	-0.0387	0.4573	
50	-0.01	-18.86	1.1235	0.0229	0.3334	0.0204	0.2967	-0.6633	0.0271	-0.3247	-0.0409	0.4895	
51	-0.02	-19.63	1.2122	0.0208	0.3429	0.0172	0.2747	-0.6632	0.0293	-0.3162	-0.0442	0.4767	
52	-0.02	-20.25	1.1946	0.0218	0.3426	0.0183	0.2868	-0.6476	0.0295	-0.3341	-0.0455	0.5159	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 148 0.92 1.7			0.0	B2W0F12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	19.71	-0.9831	-0.0425	-0.3584	0.0433	0.3645	-0.0131	0.0135	-0.0151	-1.0342	1.1500
2	0.01	19.34	-0.9891	-0.0423	-0.3613	0.0428	0.3653	-0.0325	0.0159	-0.0206	-0.4907	0.6348
3	0.02	18.60	-0.9843	-0.0392	-0.3613	0.0379	0.3670	-0.0598	0.0203	-0.0269	-0.3402	0.4837
4	0.01	17.75	-0.9865	-0.0330	-0.3700	0.0342	0.3828	-0.0820	0.0180	-0.0320	-0.2201	0.3905
5	0.02	16.91	-0.9792	-0.0227	-0.3814	0.0232	0.3895	-0.0814	0.0144	-0.0291	-0.1769	0.3578
6	0.02	16.17	-0.9510	-0.0205	-0.3763	0.0215	0.3957	-0.0597	0.0058	-0.0257	-0.0980	0.3969
7	0.01	15.37	-0.9191	-0.0191	-0.3687	0.0208	0.4011	-0.0480	-0.0006	-0.0135	0.0125	0.2811
8	0.01	14.61	-0.8730	-0.0171	-0.3626	0.0196	0.4153	-0.0325	-0.0043	-0.0081	0.1323	0.2501
9	0.01	13.79	-0.8404	-0.0156	-0.3521	0.0186	0.4190	-0.0493	-0.0050	-0.0040	0.1014	0.0817
10	0.01	13.07	-0.7993	-0.0127	-0.3399	0.0159	0.4253	-0.0454	-0.0046	-0.0038	0.1024	0.0843
11	0.01	12.28	-0.7560	-0.0112	-0.3248	0.0149	0.4296	-0.0271	-0.0060	0.0034	0.2214	-0.1243
12	0.01	11.53	-0.6896	-0.0107	-0.3137	0.0155	0.4549	-0.0313	-0.0057	0.0039	0.1821	-0.1237
13	0.01	10.70	-0.6607	-0.0094	-0.2977	0.0143	0.4506	-0.0334	-0.0049	0.0118	0.1467	-0.3524
14	0.0	9.90	-0.5986	-0.0084	-0.2835	0.0141	0.4737	-0.0171	-0.0044	0.0098	0.2602	-0.5732
15	0.0	9.08	-0.5607	-0.0077	-0.2683	0.0137	0.4785	-0.0015	-0.0050	0.0115	3.3661	-7.6668
16	0.0	8.31	-0.4931	-0.0074	-0.2512	0.0150	0.5094	-0.0019	-0.0041	0.0123	2.1838	-6.4563
17	0.0	7.46	-0.4282	-0.0071	-0.2296	0.0166	0.5361	0.0021	-0.0032	0.0110	-1.5473	5.2380
18	0.0	6.70	-0.3952	-0.0078	-0.2052	0.0197	0.5191	0.0063	-0.0030	0.0098	-0.4840	1.5554
19	0.0	5.85	-0.3219	-0.0089	-0.1786	0.0276	0.5546	0.0059	-0.0028	0.0112	-0.4830	1.8925
20	0.0	5.07	-0.2709	-0.0101	-0.1551	0.0375	0.5728	0.0098	-0.0020	0.0107	-0.2091	1.0883
21	-0.01	4.25	-0.2220	-0.0097	-0.1277	0.0437	0.5751	0.0049	-0.0016	0.0141	-0.3367	2.8842
22	0.0	3.47	-0.1656	-0.0088	-0.1054	0.0534	0.6354	0.0017	-0.0014	0.0110	-0.8234	6.4509
23	-0.01	2.71	-0.1117	-0.0072	-0.0861	0.0644	0.7710	-0.0020	-0.0009	0.0093	0.4749	-4.6668
24	-0.01	1.94	-0.0022	-0.0071	-0.0741	3.2494	33.6968	-0.0148	-0.0005	0.0129	0.0338	-0.8695
25	0.0	1.13	-0.0048	-0.0061	-0.0463	1.2810	9.6457	-0.0148	-0.0034	0.0129	0.0270	-0.8695
26	0.0	0.43	0.0160	-0.0046	-0.0202	-0.2406	-1.2605	-0.0068	-0.0005	0.0126	0.0809	-1.8580
27	-0.01	-0.33	0.0839	-0.0039	-0.0137	-0.0471	-0.1638	-0.0352	-0.0008	0.0153	0.0241	-0.4338
28	-0.01	-1.13	0.1159	-0.0025	0.0108	-0.0220	0.0934	-0.0035	-0.0004	0.0150	0.1285	-4.2954
29	0.0	-1.97	0.1273	-0.0011	0.0345	-0.0086	0.2712	-0.0181	-0.0012	0.0106	0.0690	-0.5839
30	0.0	-2.73	0.1876	0.0012	0.0504	0.0064	0.2687	-0.0395	-0.0005	0.0158	0.0127	-0.4010
31	-0.01	-3.59	0.2334	0.0035	0.0777	0.0150	0.3328	0.0072	-0.0011	0.0041	-0.1597	0.5693
32	0.0	-4.41	0.2867	0.0028	0.0554	0.0099	0.3329	-0.0051	-0.0011	0.0056	0.2255	-1.0982
33	0.0	-5.20	0.3683	0.0050	0.1148	0.0136	0.3118	-0.0020	-0.0005	0.0087	0.2500	-4.3668
34	0.0	-5.94	0.4450	0.0054	0.1367	0.0121	0.3072	-0.0342	-0.0003	0.0089	0.0102	-0.2604
35	-0.02	-6.75	0.4553	0.0056	0.1723	0.0124	0.3784	-0.0422	-0.0015	0.0098	0.0355	-0.2331
36	0.0	-7.52	0.5193	0.0038	0.1548	0.0074	0.3752	-0.0564	-0.0006	0.0172	0.0106	-0.3051
37	-0.01	-8.36	0.5507	0.0040	0.2211	0.0074	0.4015	-0.0053	-0.0003	0.0056	0.0660	-1.0630
38	-0.01	-9.13	0.6506	0.0076	0.2317	0.0118	0.3561	-0.0516	-0.0004	0.0138	0.0078	-0.2676
39	-0.02	-9.94	0.6668	0.0099	0.2480	0.0148	0.3719	-0.0535	-0.0000	0.0069	0.0009	-0.1285
40	0.0	-10.69	0.6931	0.0117	0.2750	0.0169	0.3968	-0.0322	-0.0003	0.0016	0.0109	-0.0488
41	-0.01	-11.49	0.8055	0.0128	0.2821	0.0159	0.3502	-0.0332	-0.0005	0.0045	0.0151	-0.1367
42	0.0	-12.22	0.8231	0.0151	0.2594	0.0183	0.3637	-0.0528	-0.0005	0.0040	0.0095	-0.0759
43	-0.01	-13.01	0.9108	0.0174	0.3068	0.0191	0.3368	-0.0354	-0.0009	0.0009	0.0113	0.0253
44	-0.02	-13.85	0.9437	0.0200	0.3194	0.0212	0.3384	-0.0528	-0.0009	0.0040	0.0180	-0.0759
45	-0.01	-14.70	0.9456	0.0248	0.3261	0.0262	0.3448	-0.0266	-0.0009	0.0033	0.0357	0.1227
46	-0.01	-15.51	0.9755	0.0304	0.3388	0.0312	0.3473	-0.0396	-0.0014	0.0003	0.0353	-0.0077

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6				PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 148 0.92 1.7				0.0	0.2	0.12	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.0	-16.32	1.0179	0.0338	0.3397	0.0332	0.3337	-0.0648	-0.0015	0.0054	0.0231	-0.0835
48	-0.03	-17.14	1.0488	0.0400	0.3334	0.0381	0.3179	-0.0575	-0.0014	0.0073	0.0243	-0.1277
49	-0.01	-17.95	1.0535	0.0506	0.3261	0.0480	0.3096	-0.0199	-0.0010	0.0002	0.0528	-0.0085
50	-0.01	-18.86	1.0873	0.0488	0.3265	0.0449	0.3007	-0.0532	-0.0015	0.0041	0.0282	-0.0766
51	-0.02	-19.63	1.0698	0.0492	0.3338	0.0460	0.3120	-0.0520	-0.0015	-0.0012	0.0298	0.0236
52	-0.02	-20.25	1.1087	0.0508	0.3262	0.0458	0.2943	-0.0660	-0.0006	0.0048	0.0098	-0.0728

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	149	0.92	1.7	0.0	82WU12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	3.04	19.86	0.4180	-0.6263	-3.6729	7.7987	-0.2370	0.0615	-1.4981	
2	3.04	19.86	0.3677	-0.6188	-3.6726	7.7143	-0.2150	0.0666	-1.5960	
3	3.03	19.52	0.4124	-0.6604	-3.5046	7.8131	-0.2370	0.0554	-1.6012	
4	3.04	18.77	0.3404	-0.4295	-3.6878	8.0266	-0.1700	0.0281	-1.2619	
5	3.04	17.49	0.3900	-0.4681	-3.5844	7.9988	-0.1680	0.0251	-1.2001	
6	3.04	17.13	0.3383	-0.3836	-3.4573	7.8599	-0.1270	0.0207	-1.1340	
7	3.04	16.37	0.3980	-0.5023	-3.2409	7.5418	-0.1200	0.0309	-1.2618	
8	3.04	15.55	0.3947	-0.5096	-3.1662	7.2913	-0.0870	0.0251	-1.4937	
9	3.04	14.85	0.4145	-0.5754	-3.0201	7.1998	-0.0350	0.0186	-1.3679	
10	3.04	14.04	0.3698	-0.4767	-2.8352	6.9459	-0.0040	0.0202	-1.2891	
11	3.03	13.27	0.3497	-0.4605	-2.7159	6.7659	0.0240	0.0367	-1.3171	
12	3.03	12.53	0.3576	-0.5436	-2.5698	6.4313	0.0380	0.0399	-1.5202	
13	3.03	11.76	0.3701	-0.6521	-2.3833	5.9733	0.0450	0.0450	-1.7621	
14	3.02	10.92	0.3930	-0.7652	-2.1013	5.4395	0.0510	0.0594	-1.9469	
15	3.02	10.15	0.4344	-0.8532	-1.9676	5.0574	0.0480	0.0610	-1.9639	
16	3.03	9.37	0.4290	-0.9265	-1.7830	4.5849	0.0490	0.0768	-2.1563	
17	3.03	8.56	0.4565	-0.9801	-1.6343	4.1868	0.0490	0.0804	-2.1468	
18	3.02	7.72	0.4394	-0.9762	-1.4055	3.6775	0.0470	0.0806	-2.2414	
19	3.02	6.96	0.4489	-0.9935	-1.2792	3.2067	0.0440	0.0855	-2.2129	
20	3.00	6.14	0.4635	-1.0339	-1.1160	2.8062	0.0410	0.0944	-2.2305	
21	3.03	5.33	0.4724	-1.0324	-0.9435	2.3297	0.0350	0.0962	-2.1852	
22	3.02	4.48	0.4305	-0.9747	-0.8148	1.9376	0.0280	0.0976	-2.2639	
23	3.02	3.76	0.4417	-0.9944	-0.6472	1.5000	0.0220	0.1007	-2.2511	
24	3.02	3.03	0.4792	-1.0919	-0.4819	1.1257	0.0150	0.1040	-2.2784	
25	3.02	2.24	0.4856	-1.1218	-0.3537	0.8902	0.0120	0.1098	-2.3100	
26	3.01	1.44	0.4709	-1.1113	-0.2611	0.6005	0.0100	0.1206	-2.3597	
27	3.02	0.71	0.4703	-1.1144	-0.1641	0.3757	0.0140	0.1252	-2.3694	
28	2.99	-0.07	0.5102	-1.1983	-0.0328	0.0819	0.0120	0.1319	-2.3485	
29	3.00	-0.83	0.4813	-1.1438	0.1215	-0.1891	0.0130	0.1318	-2.3763	
30	3.02	-1.68	0.5039	-1.1884	0.2300	-0.4399	0.0120	0.1276	-2.3589	
31	3.00	-2.39	0.4873	-1.0882	0.3456	-0.7377	0.0120	0.1321	-2.2330	
32	3.01	-3.26	0.4773	-1.1042	0.4588	-0.9853	0.0110	0.1281	-2.3133	
33	3.00	-4.08	0.4697	-1.0596	0.6028	-1.3479	0.0110	0.1290	-2.2557	
34	3.00	-4.87	0.4694	-1.0462	0.7545	-1.7462	0.0	0.1303	-2.2285	
35	3.02	-5.62	0.4648	-1.0387	0.8971	-2.1228	-0.0050	0.1300	-2.2346	
36	3.02	-6.38	0.4747	-1.0676	1.0941	-2.6665	-0.0110	0.1250	-2.2488	
37	2.99	-7.22	0.4681	-1.0803	1.1992	-3.0468	-0.0150	0.1372	-2.3077	
38	2.99	-8.01	0.4610	-1.0604	1.4107	-3.5808	-0.0150	0.1313	-2.3000	
39	3.03	-8.81	0.4664	-1.0190	1.6010	-4.0521	-0.0170	0.1277	-2.1846	
40	3.03	-9.53	0.4858	-0.9601	1.7471	-4.4946	-0.0150	0.1294	-1.9762	
41	3.03	-10.37	0.4327	-0.8678	1.9584	-4.9425	-0.0210	0.1223	-2.0054	
42	3.00	-11.09	0.4123	-0.7993	2.1123	-5.3599	-0.0240	0.1228	-1.9383	
43	3.01	-11.85	0.3898	-0.7408	2.2515	-5.7318	-0.0280	0.1150	-1.9001	
44	3.01	-12.65	0.3660	-0.6433	2.4742	-6.1955	-0.0150	0.1152	-1.7579	
45	3.03	-13.42	0.3523	-0.6331	2.6379	-6.5326	-0.0140	0.1110	-1.7974	
46	3.02	-14.26	0.3621	-0.6539	2.7993	-6.8157	-0.0030	0.1025	-1.8060	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 149 0.92 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	3.03	-15.10	0.3732	-0.7144	2.9672	-7.0527	0.0290	0.0974	-1.9145
48	3.03	-15.90	0.3738	-0.7022	3.0838	-7.1539	0.0800	0.0950	-1.8789
49	3.03	-16.72	0.3703	-0.5673	3.2888	-7.5719	0.0980	0.0960	-1.5323
50	3.02	-17.52	0.3994	-0.5962	3.4138	-7.7909	0.1340	0.0947	-1.4926
51	3.02	-18.43	0.3652	-0.5862	3.6627	-8.0624	0.1440	0.1003	-1.6054
52	3.02	-19.25	0.4943	-0.6371	3.7089	-8.0421	0.1810	0.1102	-1.5953
53	3.02	-20.00	0.4043	-0.7391	3.7902	-7.8929	0.2380	0.1458	-1.8278

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		149	0.92 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	3.04	19.86	-1.2007	-0.0149	-0.3420	0.0124	0.2848	-0.2767	0.0331	-0.2687	-0.1196	0.9709
2	3.04	19.86	-1.1839	-0.0110	-0.3355	0.0093	0.2834	-0.2868	0.0329	-0.2707	-0.1147	0.9439
3	3.03	19.52	-1.2090	-0.0142	-0.3373	0.0118	0.2790	-0.2799	0.0333	-0.2676	-0.1191	0.9557
4	3.04	18.77	-1.1769	-0.0172	-0.3340	0.0147	0.2838	-0.2917	0.0327	-0.2692	-0.1122	0.9227
5	3.04	17.99	-1.1538	-0.0163	-0.3265	0.0142	0.2830	-0.2835	0.0330	-0.2703	-0.1163	0.9531
6	3.04	17.13	-1.1066	-0.0149	-0.3126	0.0135	0.2825	-0.2814	0.0330	-0.2692	-0.1149	0.9363
7	3.04	16.37	-1.0684	-0.0134	-0.3013	0.0125	0.2820	-0.2756	0.0331	-0.2649	-0.1200	0.9611
8	3.04	15.55	-1.0245	-0.0122	-0.2898	0.0119	0.2829	-0.2836	0.0331	-0.2686	-0.1167	0.9469
9	3.04	14.85	-0.9428	-0.0116	-0.2816	0.0123	0.2986	-0.2775	0.0326	-0.2685	-0.1176	0.9672
10	3.04	14.04	-0.9033	-0.0122	-0.2681	0.0136	0.2968	-0.2807	0.0324	-0.2717	-0.1154	0.9678
11	3.03	13.27	-0.8580	-0.0117	-0.2579	0.0137	0.3006	-0.2898	0.0324	-0.2741	-0.1117	0.9458
12	3.03	12.53	-0.8198	-0.0111	-0.2436	0.0135	0.2971	-0.2968	0.0319	-0.2753	-0.1076	0.9274
13	3.03	11.76	-0.7524	-0.0101	-0.2335	0.0135	0.3104	-0.2876	0.0314	-0.2711	-0.1091	0.9425
14	3.02	10.92	-0.7371	-0.0100	-0.2108	0.0136	0.2860	-0.2981	0.0311	-0.2731	-0.1043	0.9160
15	3.02	10.15	-0.6378	-0.0074	-0.2146	0.0116	0.3365	-0.2875	0.0308	-0.2732	-0.1071	0.9500
16	3.03	9.37	-0.5985	-0.0078	-0.1967	0.0130	0.3287	-0.2957	0.0301	-0.2692	-0.1019	0.9103
17	3.03	8.56	-0.5792	-0.0081	-0.1769	0.0140	0.3054	-0.2936	0.0303	-0.2770	-0.1031	0.9434
18	3.02	7.72	-0.5129	-0.0097	-0.1672	0.0190	0.3260	-0.2890	0.0303	-0.2826	-0.1050	0.9776
19	3.02	6.96	-0.4929	-0.0098	-0.1387	0.0200	0.2815	-0.3154	0.0302	-0.2761	-0.0959	0.8752
20	3.00	6.14	-0.3537	-0.0103	-0.1338	0.0292	0.3782	-0.2919	0.0310	-0.2802	-0.1061	0.9599
21	3.03	5.33	-0.3184	-0.0103	-0.1128	0.0323	0.3543	-0.3194	0.0312	-0.2750	-0.0976	0.8609
22	3.02	4.48	-0.2678	-0.0106	-0.0924	0.0396	0.3452	-0.3216	0.0315	-0.2862	-0.0981	0.8899
23	3.02	3.76	-0.2155	-0.0094	-0.0748	0.0438	0.3471	-0.3222	0.0318	-0.2865	-0.0988	0.8892
24	3.02	3.03	-0.1522	-0.0066	-0.0663	0.0434	0.4357	-0.3252	0.0317	-0.2870	-0.0976	0.8826
25	3.02	2.24	-0.1233	-0.0039	-0.0457	0.0316	0.3705	-0.3197	0.0317	-0.2847	-0.0993	0.8904
26	3.01	1.44	-0.0814	-0.0012	-0.0338	0.0154	0.4155	-0.3371	0.0317	-0.2903	-0.0940	0.8611
27	3.02	0.71	-0.0484	-0.0007	-0.0195	0.0145	0.4035	-0.3477	0.0319	-0.2914	-0.0918	0.8381
28	2.99	-0.07	-0.0075	-0.0006	-0.0033	0.0867	0.4399	-0.3508	0.0321	-0.2932	-0.0916	0.8356
29	3.00	-0.83	0.0612	-0.0025	0.0125	-0.0417	0.2041	-0.3617	0.0322	-0.2978	-0.0891	0.8233
30	3.02	-1.68	0.0699	-0.0017	0.0338	-0.0243	0.4834	-0.3688	0.0328	-0.3007	-0.0889	0.8152
31	3.00	-2.39	0.1076	0.0005	0.0451	0.0051	0.4196	-0.3970	0.0325	-0.3008	-0.0818	0.7575
32	3.01	-3.26	0.1590	0.0025	0.0535	0.0157	0.3364	-0.3849	0.0325	-0.3112	-0.0845	0.8085
33	3.00	-4.08	0.2024	0.0029	0.0738	0.0146	0.3648	-0.4027	0.0318	-0.3110	-0.0791	0.7721
34	3.00	-4.87	0.2393	0.0044	0.0909	0.0184	0.3800	-0.4161	0.0305	-0.3110	-0.0734	0.7474
35	3.02	-5.62	0.3047	0.0042	0.1028	0.0138	0.3375	-0.3965	0.0295	-0.3168	-0.0744	0.7989
36	3.02	-6.38	0.3376	0.0025	0.1305	0.0074	0.3865	-0.4271	0.0275	-0.3153	-0.0645	0.7382
37	2.99	-7.22	0.4400	0.0013	0.1399	0.0031	0.3180	-0.4465	0.0256	-0.3124	-0.0574	0.6995
38	2.99	-8.01	0.4977	-0.0018	0.1640	-0.0036	0.3246	-0.4886	0.0237	-0.3092	-0.0406	0.6328
39	3.03	-8.81	0.5519	-0.0027	0.1828	-0.0050	0.3312	-0.4904	0.0225	-0.3157	-0.0459	0.6437
40	3.03	-9.53	0.6047	-0.0013	0.1963	-0.0022	0.3246	-0.4354	0.0211	-0.3223	-0.0486	0.7401
41	3.03	-10.37	0.6537	-0.0018	0.2076	-0.0028	0.3176	-0.6626	0.0195	-0.3009	-0.0295	0.4541
42	3.00	-11.09	0.6671	-0.0004	0.2246	-0.0007	0.3367	-0.5250	0.0181	-0.3185	-0.0346	0.6067
43	3.01	-11.85	0.7397	0.0005	0.2292	0.0007	0.3098	-0.6056	0.0165	-0.3051	-0.0273	0.5038
44	3.01	-12.65	0.8067	0.0004	0.2402	0.0006	0.2978	-0.6184	0.0143	-0.3164	-0.0232	0.5117
45	3.03	-13.42	0.8107	0.0013	0.2564	0.0017	0.3163	-0.7673	0.0128	-0.2794	-0.0167	0.3641
46	3.02	-14.26	0.8606	0.0019	0.2671	0.0022	0.3103	-0.8524	0.0108	-0.2697	-0.0127	0.3164

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH KX10-6				PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 149 0.92 1.7				0.0	0.20612	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	3.03	-15.10	0.9283	0.0022	0.2760	0.0024	0.2974	-0.7810	0.0091	-0.3009	-0.0117	0.3853
48	3.03	-15.90	0.9512	0.0014	0.2563	0.0015	0.3115	-0.9229	0.0081	-0.2714	-0.0088	0.2941
49	3.03	-16.72	0.9647	0.0010	0.3179	0.0010	0.3295	-0.7420	0.0096	-0.3242	-0.0129	0.4370
50	3.02	-17.52	1.0151	0.0028	0.3283	0.0028	0.3234	-0.5941	0.0090	-0.3543	-0.0152	0.5964
51	3.02	-18.43	1.0959	0.0017	0.3279	0.0016	0.2992	-0.5544	0.0076	-0.3702	-0.0137	0.6678
52	3.02	-19.25	1.1203	0.0014	0.3382	0.0013	0.3019	-0.5721	0.0075	-0.3675	-0.0131	0.6424
53	3.02	-20.00	1.2164	-0.0011	0.3402	-0.0009	0.2797	-0.5007	0.0075	-0.3764	-0.0151	0.7517

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 149 0.92 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	ACPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	3.04	19.86	-0.8724	-0.0428	-0.2561	0.0491	0.3394	-0.0754	-0.0575	0.0170	0.7625	-0.2251
2	3.04	19.86	-0.8418	-0.0427	-0.285C	0.0508	0.3366	-0.0324	-0.0619	0.0362	2.0968	-1.1174
3	3.03	19.52	-0.8592	-0.0436	-0.2988	0.0507	0.3478	-0.0716	-0.0576	0.0180	0.8043	-0.2520
4	3.04	18.77	-0.9585	-0.0452	-0.3314	0.0472	0.3457	-0.0820	-0.0541	0.0083	0.6602	-0.1009
5	3.04	17.99	-0.9634	-0.0458	-0.3365	0.0476	0.3493	-0.0862	-0.0551	0.0103	0.6397	-0.1192
6	3.04	17.13	-0.9726	-0.0452	-0.3444	0.0465	0.3541	-0.0857	-0.0562	0.0101	0.8540	-0.1538
7	3.04	16.37	-0.9368	-0.0436	-0.3447	0.0466	0.3679	-0.0752	-0.0557	0.0147	0.7412	-0.1960
8	3.04	15.55	-0.9382	-0.0451	-0.3383	0.0481	0.3606	-0.0604	-0.0602	0.0274	1.4911	-0.6792
9	3.04	14.85	-0.9570	-0.0337	-0.3715	0.0352	0.3882	-0.0217	-0.0598	0.0340	2.7553	-1.5654
10	3.04	14.04	-0.9324	-0.0224	-0.3764	0.0240	0.4037	-0.0395	-0.0554	0.0358	1.4035	-0.9073
11	3.03	13.27	-0.9084	-0.0162	-0.3753	0.0179	0.4131	0.0039	-0.0529	0.0394	-13.5745	10.1024
12	3.03	12.53	-0.8606	-0.0135	-0.3675	0.0157	0.4270	0.0219	-0.0507	0.0475	-2.3147	2.1688
13	3.03	11.76	-0.8030	-0.0109	-0.3435	0.0136	0.4278	0.0777	-0.0477	0.0475	-0.6144	0.6112
14	3.02	10.92	-0.7301	-0.0094	-0.3364	0.0129	0.4607	0.0471	-0.0416	0.0604	-0.8841	1.4521
15	3.02	10.15	-0.6918	-0.0084	-0.3136	0.0122	0.4533	0.1076	-0.0360	0.0630	-0.3345	0.5860
16	3.03	9.37	-0.6104	-0.0059	-0.2584	0.0097	0.4888	0.1211	-0.0301	0.0658	-0.2489	0.5438
17	3.03	8.56	-0.5629	-0.0060	-0.2814	0.0107	0.5000	0.1026	-0.0227	0.0712	-0.2212	0.6938
18	3.02	7.72	-0.4969	-0.0065	-0.2585	0.0132	0.5201	0.1260	-0.0175	0.0690	-0.1389	0.5475
19	3.02	6.96	-0.4514	-0.0049	-0.2298	0.0110	0.5091	0.1105	-0.0101	0.0736	-0.0918	0.6681
20	3.00	6.14	-0.3465	-0.0057	-0.2153	0.0166	0.6212	0.1423	-0.0078	0.0712	-0.0548	0.5005
21	3.03	5.33	-0.3234	-0.0060	-0.1788	0.0187	0.5527	0.1643	-0.0022	0.0585	-0.0137	0.3563
22	3.02	4.58	-0.2452	-0.0073	-0.1555	0.0300	0.6342	0.1289	0.0018	0.0678	0.0140	0.5264
23	3.02	3.76	-0.2392	-0.0079	-0.1154	0.0332	0.4825	0.1281	0.0040	0.0687	0.0316	0.5362
24	3.02	3.03	-0.1446	-0.0077	-0.0964	0.0536	0.6665	0.1628	0.0051	0.0714	0.0313	0.4389
25	3.02	2.24	-0.0801	-0.0065	-0.0794	0.0868	0.9911	0.1625	0.0045	0.0711	0.0277	0.4378
26	3.01	1.44	-0.0278	-0.0056	-0.0542	0.2032	1.9483	0.1528	0.0052	0.0766	0.0344	0.5014
27	3.02	0.71	0.0077	-0.0058	-0.0343	-0.7531	-4.4390	0.1657	0.0041	0.0783	0.0250	0.4726
28	2.99	-0.07	0.0655	-0.0038	-0.0117	-0.0588	-0.1782	0.1897	0.0023	0.0828	0.0121	0.4365
29	3.00	-0.83	0.0848	-0.0032	0.0106	-0.0383	0.1245	0.1945	0.0023	0.0817	0.0118	0.4201
30	3.02	-1.68	0.1398	-0.0017	0.0313	-0.0122	0.2238	0.2074	0.0026	0.0812	0.0125	0.3916
31	3.00	-2.39	0.2339	0.0001	0.0395	0.0004	0.1690	0.1725	0.0020	0.0868	0.0119	0.5031
32	3.01	-3.26	0.2242	0.0014	0.0767	0.0062	0.3421	0.1812	0.0020	0.0885	0.0113	0.4883
33	3.00	-4.08	0.2877	0.0021	0.0487	0.0073	0.3429	0.1844	0.0039	0.0896	0.0049	0.4861
34	3.00	-4.87	0.3604	0.0027	0.1274	0.0076	0.3535	0.2472	-0.0009	0.0824	-0.0038	0.3332
35	3.02	-5.62	0.4068	0.0023	0.1556	0.0058	0.3824	0.1795	-0.0007	0.0952	-0.0042	0.5304
36	3.02	-6.38	0.5057	0.0024	0.1776	0.0048	0.3512	0.2370	0.0002	0.0792	0.0011	0.3341
37	2.99	-7.22	0.5481	0.0027	0.2088	0.0050	0.3810	0.1828	-0.0011	0.1050	-0.0063	0.5745
38	2.99	-8.01	0.6162	0.0042	0.2299	0.0069	0.3731	0.2101	0.0002	0.0878	0.0010	0.4179
39	3.03	-8.81	0.6481	0.0057	0.2576	0.0089	0.3975	0.1896	-0.0006	0.0927	-0.0032	0.4888
40	3.03	-9.53	0.7136	0.0090	0.2690	0.0127	0.3769	0.2005	0.0006	0.0884	0.0032	0.4409
41	3.03	-10.37	0.7874	0.0109	0.2875	0.0139	0.3651	0.1475	0.0007	0.0985	0.0051	0.6681
42	3.00	-11.09	0.8398	0.0130	0.3038	0.0155	0.3618	0.1470	-0.0002	0.0980	-0.0017	0.6665
43	3.01	-11.85	0.8859	0.0154	0.3217	0.0174	0.3631	0.1925	0.0013	0.0887	0.0070	0.4610
44	3.01	-12.65	0.9791	0.0190	0.3278	0.0194	0.3347	0.2016	0.0026	0.0884	0.0129	0.4384
45	3.03	-13.42	0.9689	0.0219	0.3440	0.0226	0.3550	0.2059	0.0029	0.0808	0.0143	0.3925
46	3.02	-14.26	1.0178	0.0305	0.3495	0.0300	0.3434	0.2077	0.0031	0.0815	0.0149	0.3924

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 149 0.92 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.03	-15.10	1.0227	0.0409	0.3436	0.0400	0.3360	0.2211	0.0031	0.0820	0.0140	0.3708
48	3.03	-15.90	1.0389	0.0472	0.3090	0.0454	0.2974	0.1731	0.0032	0.0891	0.0185	0.5146
49	3.03	-16.72	1.0156	0.0468	0.3288	0.0461	0.3238	0.1827	0.0031	0.0877	0.0170	0.4799
50	3.02	-17.52	1.0409	0.0496	0.3266	0.0477	0.3137	0.2166	0.0033	0.0824	0.0152	0.3803
51	3.02	-18.43	1.0432	0.0498	0.3236	0.0478	0.3102	0.1994	0.0032	0.0898	0.0160	0.4506
52	3.02	-19.25	1.0509	0.0527	0.3053	0.0502	0.2905	0.2083	0.0032	0.0818	0.0154	0.3927
53	3.02	-20.00	0.9431	0.0459	0.2670	0.0487	0.2831	0.1799	0.0037	0.0857	0.0206	0.4766

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST PART	MACH	Rx10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	150	0.92	1.7	0.0	BZWH12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	6.04	19.96	0.9467	-1.8233	-3.5693	6.8888	-0.2960	0.0597	-1.9260	
2	6.02	19.57	1.0012	-1.8476	-3.5770	7.0586	-0.3110	0.0481	-1.8454	
3	6.01	18.82	0.9643	-1.7939	-3.5243	7.2238	-0.2750	0.0368	-1.8604	
4	6.04	18.02	0.9212	-1.6546	-3.4681	7.2441	-0.2450	0.0227	-1.7962	
5	6.05	17.16	0.8971	-1.5179	-3.4028	7.3865	-0.1810	-0.0124	-1.6920	
6	6.05	16.39	0.8732	-1.4724	-3.3062	7.5433	-0.1460	-0.0194	-1.6863	
7	6.03	15.62	0.8979	-1.6450	-3.1014	7.1096	-0.0900	-0.0186	-1.8321	
8	6.04	14.89	0.9406	-1.7168	-2.9732	6.8401	-0.0660	-0.0208	-1.8222	
9	6.01	14.08	0.9012	-1.6826	-2.8240	6.6113	-0.0150	-0.0150	-1.8671	
10	6.04	13.32	0.9316	-1.7372	-2.6302	6.3849	0.0050	-0.0028	-1.8647	
11	6.04	12.54	0.8937	-1.6931	-2.4860	6.0440	0.0270	0.0108	-1.8945	
12	6.02	11.79	0.9176	-1.8115	-2.2464	5.5537	0.0330	0.0230	-1.9743	
13	6.03	11.03	0.9104	-1.8635	-2.1112	5.1294	0.0360	0.0389	-2.0469	
14	6.01	10.22	0.9392	-2.0128	-1.9425	4.7863	0.0460	0.0432	-2.1431	
15	6.02	9.39	0.9440	-2.0635	-1.7549	4.3426	0.0560	0.0527	-2.1859	
16	6.01	8.62	0.9952	-2.2921	-1.5765	3.9259	0.0470	0.0579	-2.3032	
17	5.99	7.80	0.9834	-2.3446	-1.4267	3.5652	0.0390	0.0641	-2.3842	
18	6.01	7.05	1.0037	-2.3800	-1.3052	3.1891	0.0390	0.0687	-2.3713	
19	5.99	6.21	1.0424	-2.5152	-1.1125	2.7273	0.0320	0.0795	-2.4129	
20	5.98	5.43	1.0055	-2.4785	-0.9296	2.3023	0.0230	0.0919	-2.4650	
21	5.99	4.56	1.0402	-2.5421	-0.7949	1.8868	0.0160	0.0952	-2.4439	
22	5.97	3.81	1.0419	-2.6065	-0.6640	1.5325	0.0100	0.1070	-2.5017	
23	6.00	3.05	1.0175	-2.5273	-0.4868	1.1735	0.0020	0.1109	-2.4839	
24	6.00	2.30	1.0210	-2.5932	-0.3596	0.9033	0.0040	0.1162	-2.5399	
25	5.97	1.52	1.0631	-2.6751	-0.2510	0.6783	0.0030	0.1180	-2.5164	
26	5.98	0.76	1.0413	-2.6636	-0.1426	0.4116	0.0040	0.1316	-2.5581	
27	5.99	0.03	1.0547	-2.7094	0.0146	0.1065	0.0140	0.1293	-2.5689	
28	5.98	-0.73	1.0722	-2.7629	0.0640	-0.1366	0.0290	0.1306	-2.5769	
29	6.00	-1.55	1.0499	-2.6786	0.2766	-0.4782	0.0310	0.1261	-2.5514	
30	5.98	-2.36	1.0119	-2.5815	0.3434	-0.6977	0.0270	0.1318	-2.5512	
31	5.98	-3.20	1.0443	-2.5588	0.4116	-0.9193	0.0290	0.1259	-2.4504	
32	6.00	-3.97	1.0123	-2.5150	0.6030	-1.2902	0.0200	0.1277	-2.4846	
33	5.99	-4.76	1.0439	-2.4873	0.7097	-1.6915	0.0140	0.1247	-2.3628	
34	5.98	-5.48	1.0298	-2.4555	0.8687	-2.0511	0.0010	0.1266	-2.3846	
35	6.00	-6.29	1.0174	-2.4402	1.0122	-2.4399	0.0010	0.1262	-2.3985	
36	5.99	-7.09	1.0367	-2.3992	1.1722	-2.8740	-0.0030	0.1208	-2.3144	
37	6.01	-7.92	0.9815	-2.2979	1.3558	-3.2350	-0.0100	0.1191	-2.3413	
38	6.02	-8.67	1.0146	-2.3103	1.5365	-3.6959	-0.0090	0.1145	-2.2771	
39	6.02	-9.49	0.9868	-2.1904	1.7019	-4.1174	-0.0020	0.1088	-2.2197	
40	6.01	-10.24	0.9700	-2.0669	1.8632	-4.4942	0.0	0.1049	-2.1308	
41	6.00	-10.98	0.9506	-2.0377	2.0653	-5.0082	0.0	0.1018	-2.1437	
42	6.01	-11.76	0.9217	-1.9253	2.1953	-5.4621	-0.0070	0.0959	-2.0889	
43	6.02	-12.59	0.8967	-1.8023	2.4248	-5.9604	-0.0030	0.0862	-2.0099	
44	6.02	-13.32	0.9266	-1.6771	2.6188	-6.3379	0.0180	0.0894	-2.0259	
45	6.02	-14.19	0.8651	-1.7810	2.7859	-6.6589	0.0300	0.0773	-2.0588	
46	6.03	-14.99	0.9097	-1.8485	2.8907	-6.7287	0.0720	0.0838	-2.0320	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6	150	0.92	1.7	0.0	82	WOF12	0.0	0	0	0
										FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	6.01	-15.80	0.8515	-1.6150	3.1197	-7.0952	0.0930	0.0960	-1.8967	
48	6.04	-16.61	0.8410	-1.5223	3.2360	-7.2450	0.1180	0.0975	-1.8102	
49	6.04	-17.46	0.8508	-1.6080	3.3272	-7.1857	0.1800	0.1168	-1.8901	
50	6.03	-18.30	0.8768	-1.7724	3.4202	-7.0439	0.2410	0.1456	-2.0215	
51	6.00	-19.13	1.0158	-2.3220	3.2909	-6.1790	0.3640	0.1897	-2.2859	
52	6.00	-19.88	1.0762	-2.4245	3.3931	-6.2781	0.3849	0.1836	-2.2529	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST. PART		MACH		RATIO-6		PHI	CONF	L	OEL1	OEL2	OEL3	OEL4	TRANSITION
6		150		0.92 1.7		0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	6.04	19.96	-1.0648	0.0049	-0.3134	-0.0047	0.2999	-0.0599	0.0372	-0.1799	-0.6209	3.0043	
2	6.02	19.57	-1.0658	0.0009	-0.3095	-0.0009	0.2904	-0.0626	0.0371	-0.1762	-0.5933	2.8156	
3	6.01	18.82	-1.0312	0.0008	-0.3126	-0.0008	0.3032	-0.0224	0.0375	-0.1783	-1.6738	7.9627	
4	6.04	18.02	-1.0221	-0.0004	-0.2994	0.0004	0.2929	-0.0238	0.0373	-0.1848	-1.5669	7.7660	
5	6.05	17.16	-0.9818	-0.0028	-0.2913	0.0029	0.2967	-0.0306	0.0370	-0.1831	-1.2106	5.9835	
6	6.05	16.39	-0.9404	-0.0053	-0.2831	0.0057	0.3010	-0.0455	0.0372	-0.1840	-0.8185	4.0453	
7	6.03	15.62	-0.9512	-0.0032	-0.2613	0.0034	0.2747	-0.0133	0.0363	-0.1914	-2.7326	14.3934	
8	6.04	14.89	-0.8277	-0.0038	-0.2653	0.0046	0.3205	0.0100	0.0363	-0.1926	3.6344	-19.2668	
9	6.01	14.08	-0.8036	-0.0043	-0.2482	0.0053	0.3088	-0.0184	0.0357	-0.1933	-1.9426	10.5071	
10	6.04	13.32	-0.7577	-0.0041	-0.2336	0.0055	0.3083	-0.0029	0.0354	-0.1879	-12.2220	64.8159	
11	6.04	12.54	-0.7500	-0.0040	-0.2151	0.0053	0.2868	-0.0027	0.0351	-0.1970	-13.0162	72.9628	
12	6.02	11.79	-0.6403	-0.0028	-0.2044	0.0044	0.3192	-0.0033	0.0343	-0.1915	-10.4072	58.0302	
13	6.03	11.03	-0.6108	-0.0055	-0.1908	0.0091	0.3124	-0.0468	0.0338	-0.1944	-0.7232	4.1537	
14	6.01	10.22	-0.5626	-0.0043	-0.1748	0.0077	0.3106	0.0147	0.0334	-0.1974	2.2717	-13.4287	
15	6.02	9.39	-0.4796	-0.0080	-0.1636	0.0167	0.3411	-0.0523	0.0330	-0.1971	-0.6309	3.7692	
16	6.01	8.62	-0.4643	-0.0040	-0.1460	0.0087	0.3145	-0.0648	0.0325	-0.1894	-0.5022	2.9227	
17	5.99	7.80	-0.3939	-0.0016	-0.1449	0.0041	0.3677	-0.0091	0.0321	-0.1983	-3.5323	21.7947	
18	6.01	7.05	-0.3588	-0.0000	-0.1327	0.0001	0.3805	-0.0888	0.0322	-0.1941	-0.3625	2.1857	
19	5.99	6.21	-0.3320	0.0001	-0.1048	-0.0005	0.3156	-0.0053	0.0319	-0.2028	-6.0178	38.2766	
20	5.94	5.43	-0.2560	0.0003	-0.0978	-0.0012	0.3820	-0.0446	0.0316	-0.2000	-0.7084	4.4857	
21	5.99	4.56	-0.2088	0.0022	-0.0824	-0.0108	0.3945	-0.0629	0.0314	-0.2013	-0.4999	3.2013	
22	5.97	3.81	-0.2309	0.0041	-0.0609	-0.0180	0.2639	-0.1145	0.0320	-0.1980	-0.2794	1.7297	
23	6.00	3.05	-0.1486	0.0056	-0.0568	-0.0380	0.3823	-0.0479	0.0321	-0.2115	-0.6711	4.4167	
24	6.00	2.30	-0.1198	0.0065	-0.0453	-0.0542	0.3783	-0.0954	0.0326	-0.2097	-0.3422	2.1980	
25	5.97	1.52	-0.0752	0.0080	-0.0320	-0.1070	0.4250	-0.0728	0.0331	-0.2179	-0.4553	2.9939	
26	5.98	0.76	-0.0504	0.0046	-0.0182	-0.0922	0.3610	-0.0597	0.0338	-0.2204	-0.5669	3.6917	
27	5.99	0.03	0.0041	-0.0006	-0.0018	-0.1463	-0.4473	-0.0866	0.0341	-0.2231	-0.3943	2.5769	
28	5.98	-0.73	0.0158	-0.0070	0.0152	-0.4461	0.9598	-0.1221	0.0345	-0.2274	-0.2825	1.8631	
29	6.00	-1.55	0.0625	-0.0108	0.0350	-0.1728	0.5604	-0.1390	0.0345	-0.2326	-0.2482	1.6735	
30	5.98	-2.36	0.1126	-0.0101	0.0410	-0.0897	0.3643	-0.2126	0.0348	-0.2308	-0.1639	1.0858	
31	5.98	-3.20	0.1338	-0.0077	0.0511	-0.0579	0.3818	-0.4453	0.0349	-0.2077	-0.0783	0.4664	
32	6.00	-3.97	0.1602	-0.0052	0.0627	-0.0328	0.3913	-0.4450	0.0350	-0.2206	-0.0786	0.4957	
33	5.99	-4.76	0.1686	-0.0041	0.0850	-0.0246	0.5040	-0.3250	0.0343	-0.2418	-0.1056	0.7439	
34	5.98	-5.48	0.2604	-0.0032	0.0874	-0.0123	0.3355	-0.4514	0.0330	-0.2296	-0.0731	0.5086	
35	6.00	-6.29	0.2826	-0.0016	0.1120	-0.0057	0.3962	-0.3448	0.0313	-0.2547	-0.0907	0.7385	
36	5.99	-7.09	0.3285	-0.0035	0.1254	-0.0106	0.3816	-0.3150	0.0291	-0.2603	-0.0923	0.8264	
37	6.01	-7.92	0.3492	-0.0006	0.1382	-0.0017	0.3956	-0.3317	0.0273	-0.2696	-0.0823	0.8127	
38	6.02	-8.67	0.3948	0.0006	0.1486	0.0015	0.3763	-0.5079	0.0258	-0.2602	-0.0508	0.5123	
39	6.02	-9.49	0.4628	-0.0018	0.1675	-0.0040	0.3619	-0.2874	0.0245	-0.2954	-0.0854	1.0278	
40	6.01	-10.24	0.5293	-0.0039	0.1805	-0.0074	0.3410	-0.4362	0.0221	-0.2858	-0.0506	0.6552	
41	6.00	-10.98	0.5946	-0.0044	0.1933	-0.0074	0.3251	-0.4077	0.0201	-0.2973	-0.0494	0.7292	
42	6.01	-11.76	0.6256	-0.0055	0.2060	-0.0088	0.3292	-0.4281	0.0183	-0.2930	-0.0427	0.6845	
43	6.02	-12.59	0.6646	-0.0053	0.2267	-0.0080	0.3472	-0.3842	0.0156	-0.3119	-0.0407	0.8117	
44	6.02	-13.32	0.7283	-0.0072	0.2353	-0.0099	0.3231	-0.3185	0.0141	-0.3224	-0.0444	1.0121	
45	6.02	-14.19	0.7639	-0.0079	0.2497	-0.0103	0.3269	-0.3082	0.0111	-0.3303	-0.0360	1.0713	
46	6.03	-14.99	0.8048	-0.0103	0.2611	-0.0129	0.3244	-0.3436	0.0087	-0.3199	-0.0253	0.9308	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
 6 150 0.92 1.7 0.0 B2WOF12 0.6 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	6.01	-15.80	0.8568	-0.0097	0.2725	-0.0114	0.3180	-0.3452	0.0090	-0.3341	-0.0261	0.9677
48	6.04	-16.61	0.9009	-0.0099	0.2851	-0.0110	0.3165	-0.3072	0.0071	-0.3375	-0.0231	1.0986
49	6.04	-17.46	0.9519	-0.0099	0.3035	-0.0104	0.3188	-0.3534	0.0059	-0.3323	-0.0167	0.9403
50	6.03	-18.30	0.9896	-0.0112	0.3149	-0.0114	0.3182	-0.2951	0.0049	-0.3404	-0.0168	1.1533
51	6.00	-19.13	1.0543	-0.0142	0.3158	-0.0135	0.2995	-0.2573	0.0057	-0.3186	-0.0223	1.2384
52	6.00	-19.88	1.0664	-0.0123	0.3274	-0.0115	0.3071	-0.2567	0.0059	-0.3357	-0.0230	1.3079

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RX10-6												PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 150 0.92 1.7												0.0	0.240	12	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4							
1	6.04	19.96	-0.7385	-0.0297	-0.2470	0.0402	0.3344	0.0806	-0.0704	0.0753	-0.8739	0.9350							
2	6.02	19.57	-0.7466	-0.0379	-0.2645	0.0476	0.3321	0.0324	-0.0661	0.0532	-2.0398	1.6419							
3	6.01	18.82	-0.8401	-0.0430	-0.2405	0.0512	0.3458	0.0030	-0.0647	0.0560	-21.5628	18.0665							
4	6.04	18.02	-0.8839	-0.0443	-0.3030	0.0501	0.3428	0.0418	-0.0637	0.0448	-1.5248	1.0724							
5	6.05	17.16	-1.0189	-0.0462	-0.3274	0.0453	0.3213	-0.0277	-0.0623	0.0631	-2.2487	-2.2769							
6	6.05	16.39	-1.0082	-0.0434	-0.3532	0.0430	0.3504	0.0117	-0.0551	0.0431	-4.7086	3.6836							
7	6.03	15.62	-0.9892	-0.0418	-0.3582	0.0423	0.3621	0.0622	-0.0581	0.0702	-0.9018	1.1290							
8	6.04	14.89	-0.9446	-0.0412	-0.3778	0.0436	0.3999	0.0756	-0.0547	0.0807	-0.7234	1.0673							
9	6.01	14.08	-0.9709	-0.0313	-0.3735	0.0322	0.3847	0.1230	-0.0494	0.0750	-0.4016	0.6096							
10	6.04	13.32	-0.9477	-0.0204	-0.3818	0.0216	0.4028	0.1152	-0.0425	0.0852	-0.3689	0.7395							
11	6.04	12.54	-0.9573	-0.0119	-0.3690	0.0125	0.3854	0.1337	-0.0371	0.0897	-0.2778	0.6713							
12	6.02	11.79	-0.8250	-0.0097	-0.3615	0.0118	0.4382	0.1565	-0.0302	0.0961	-0.1929	0.6144							
13	6.03	11.03	-0.7816	-0.0085	-0.3495	0.0109	0.4472	0.1732	-0.0285	0.0946	-0.1648	0.5463							
14	6.01	10.22	-0.7312	-0.0073	-0.3277	0.0100	0.4482	0.2435	-0.0237	0.0975	-0.0975	0.4006							
15	6.02	9.39	-0.6513	-0.0059	-0.3141	0.0091	0.4823	0.2203	-0.0228	0.1110	-0.1037	0.5039							
16	6.01	8.62	-0.5924	-0.0052	-0.2924	0.0089	0.4936	0.2422	-0.0176	0.1187	-0.0729	0.4901							
17	5.99	7.80	-0.5387	-0.0054	-0.2604	0.0100	0.4834	0.3130	-0.0138	0.1106	-0.0441	0.3533							
18	6.01	7.05	-0.4420	-0.0043	-0.2491	0.0097	0.5635	0.2892	-0.0112	0.1239	-0.0387	0.4263							
19	5.99	6.21	-0.4021	-0.0036	-0.2194	0.0091	0.5455	0.2826	-0.0046	0.1336	-0.0163	0.4726							
20	5.98	5.43	-0.3450	-0.0037	-0.1818	0.0109	0.5268	0.2954	-0.0009	0.1304	-0.0030	0.4415							
21	5.99	4.56	-0.2330	-0.0039	-0.1689	0.0167	0.7251	0.3567	0.0026	0.1255	0.0073	0.3517							
22	5.97	3.81	-0.2204	-0.0050	-0.1320	0.0249	0.5791	0.3438	0.0040	0.1367	0.0118	0.3975							
23	6.00	3.05	-0.1334	-0.0057	-0.1097	0.0431	0.8227	0.3822	0.0045	0.1335	0.0119	0.3492							
24	6.00	2.30	-0.1007	-0.0053	-0.0787	0.0526	0.7821	0.3604	0.0039	0.1485	0.0110	0.4120							
25	5.97	1.52	-0.0228	-0.0052	-0.0626	0.2302	2.7455	0.4139	0.0018	0.1475	0.0043	0.3564							
26	5.98	0.76	0.0327	-0.0047	-0.0385	-0.1437	-1.1775	0.4179	0.0017	0.1514	0.0042	0.3622							
27	5.99	0.03	0.0787	-0.0052	-0.0189	-0.0667	-0.2398	0.4509	-0.0004	0.1567	-0.0010	0.3474							
28	5.98	-0.73	0.0987	-0.0036	0.0086	-0.0365	0.0870	0.4393	-0.0002	0.1736	-0.0005	0.3951							
29	6.00	-1.55	0.1594	-0.0015	0.0293	-0.0094	0.1839	0.4317	-0.0007	0.1716	-0.0017	0.3974							
30	5.98	-2.36	0.1926	-0.0007	0.0335	-0.0039	0.2777	0.4663	-0.0014	0.1675	-0.0030	0.3592							
31	5.98	-3.20	0.2619	0.0005	0.0756	0.0019	0.2885	0.4828	-0.0019	0.1669	-0.0039	0.3456							
32	6.00	-3.97	0.2968	0.0006	0.1121	0.0022	0.3777	0.4461	-0.0032	0.1826	-0.0073	0.4094							
33	5.99	-4.76	0.3899	0.0010	0.1361	0.0026	0.3491	0.4799	-0.0024	0.1763	-0.0050	0.3674							
34	5.98	-5.48	0.4302	0.0003	0.1605	0.0008	0.3739	0.4644	-0.0030	0.1794	-0.0066	0.3864							
35	6.00	-6.29	0.5235	0.0016	0.1874	0.0031	0.3580	0.4474	-0.0034	0.1879	-0.0077	0.4199							
36	5.99	-7.09	0.5695	0.0029	0.2147	0.0052	0.3769	0.5053	-0.0027	0.1795	-0.0054	0.3552							
37	6.01	-7.92	0.6495	0.0045	0.2402	0.0069	0.3699	0.4829	-0.0015	0.1829	-0.0032	0.3788							
38	6.02	-8.67	0.6908	0.0056	0.2653	0.0082	0.3840	0.4999	-0.0020	0.1863	-0.0041	0.3726							
39	6.02	-9.49	0.7621	0.0077	0.2870	0.0102	0.3766	0.4932	-0.0004	0.1813	-0.0009	0.3677							
40	6.01	-10.24	0.8280	0.0084	0.3012	0.0102	0.3638	0.4584	0.0006	0.1876	0.0014	0.4093							
41	6.00	-10.98	0.8887	0.0099	0.3206	0.0111	0.3608	0.4549	0.0015	0.1893	0.0033	0.4161							
42	6.01	-11.76	0.9373	0.0121	0.3392	0.0129	0.3619	0.4868	0.0035	0.1792	0.0073	0.3681							
43	6.02	-12.59	0.9798	0.0156	0.3584	0.0160	0.3658	0.4566	0.0041	0.1825	0.0090	0.3998							
44	6.02	-13.32	1.0504	0.0269	0.3594	0.0256	0.3422	0.4755	0.0058	0.1866	0.0122	0.3925							
45	6.02	-14.19	1.0636	0.0335	0.3597	0.0315	0.3382	0.4487	0.0064	0.1833	0.0144	0.4085							
46	6.03	-14.99	1.0517	0.0468	0.3357	0.0445	0.3192	0.4385	0.0065	0.1856	0.0148	0.4233							

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0 150 0.92 1.7 0.0 BZNOF14 0.0 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	6.01	-15.80	1.0248	0.0446	0.3471	0.0435	0.3387	0.4352	0.0082	0.1771	0.0189	0.4070
48	6.04	-16.61	1.0659	0.0502	0.3285	0.0471	0.3085	0.4205	0.0081	0.1774	0.0194	0.4219
49	6.04	-17.46	1.0278	0.0468	0.2931	0.0455	0.2852	0.4280	0.0086	0.1770	0.0201	0.4136
50	6.03	-18.30	0.9114	0.0460	0.2608	0.0505	0.2862	0.4315	0.0068	0.1733	0.0159	0.4016
51	6.00	-19.13	0.6504	0.0251	0.2022	0.0387	0.3109	0.4461	0.0076	0.1755	0.0170	0.3935
52	6.00	-19.88	0.6617	0.0250	0.2071	0.0378	0.3130	0.4468	0.0075	0.1697	0.0154	0.3486

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	151	0.92	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	9.05	19.79	1.6752	-3.7331	-3.4582	6.0804	-0.3909	0.0428	-2.2285		
2	9.03	19.38	1.7107	-3.8058	-3.4210	6.0432	-0.3909	0.0407	-2.2247		
3	9.06	18.70	1.6026	-3.2835	-3.4773	6.6290	-0.3070	0.0044	-2.0489		
4	9.06	17.85	1.5952	-3.2251	-3.4091	6.5854	-0.2710	-0.0133	-2.0218		
5	9.06	17.01	1.4985	-3.0568	-3.3052	6.6300	-0.1900	-0.0168	-2.0399		
6	9.06	16.28	1.4547	-2.9615	-3.2534	6.9684	-0.1140	-0.0602	-2.0358		
7	9.05	15.49	1.5617	-3.1562	-3.0750	6.6267	-0.0830	-0.0551	-2.0210		
8	9.04	14.77	1.5414	-3.2538	-2.8705	6.3324	-0.0710	-0.0425	-2.1109		
9	9.06	13.92	1.5140	-3.1495	-2.7726	6.1884	-0.0490	-0.0442	-2.0670		
10	9.07	13.22	1.5117	-3.1063	-2.6267	5.9470	-0.0350	-0.0248	-2.0548		
11	9.06	12.39	1.4832	-3.1203	-2.4413	5.6245	-0.0020	-0.0096	-2.1038		
12	9.05	11.68	1.4953	-3.3103	-2.2107	5.2897	0.0140	0.0157	-2.2138		
13	9.03	10.83	1.5485	-3.5137	-2.1184	4.8415	0.0230	0.0213	-2.2691		
14	9.04	10.09	1.5699	-3.6057	-1.9022	4.4458	0.0490	0.0324	-2.2968		
15	9.04	9.28	1.5734	-3.6766	-1.7459	4.0370	0.0510	0.0422	-2.3367		
16	9.03	8.49	1.5672	-3.7419	-1.5648	3.6265	0.0490	0.0478	-2.3876		
17	9.03	7.66	1.5775	-3.7183	-1.4205	3.2615	0.0410	0.0589	-2.3571		
18	9.03	6.85	1.5823	-3.8270	-1.2415	2.8080	0.0330	0.0659	-2.4186		
19	9.03	6.08	1.6313	-3.9436	-1.0926	2.5164	0.0260	0.0727	-2.4187		
20	9.03	5.27	1.6072	-3.9618	-0.9117	2.0882	0.0120	0.0835	-2.4651		
21	9.00	4.48	1.6345	-4.0760	-0.7467	1.7353	0.0070	0.0831	-2.4938		
22	9.01	3.70	1.6653	-4.2151	-0.6564	1.4869	0.0	0.0877	-2.5312		
23	8.98	2.99	1.6469	-4.2284	-0.5273	1.1602	-0.0040	0.1038	-2.5675		
24	9.01	2.16	1.6736	-4.2958	-0.4076	0.9277	-0.0050	0.1079	-2.5692		
25	9.01	1.41	1.6892	-4.3356	-0.2447	0.6035	-0.0040	0.1086	-2.5667		
26	9.00	0.65	1.6759	-4.3730	-0.1429	0.3820	0.0060	0.1200	-2.6094		
27	9.01	-0.02	1.6886	-4.3927	-0.0475	0.1665	0.0120	0.1129	-2.6014		
28	8.99	-0.89	1.6902	-4.3780	0.0693	-0.1310	0.0240	0.1247	-2.5903		
29	9.01	-1.64	1.6832	-4.3452	0.1899	-0.4378	0.0320	0.1135	-2.5815		
30	9.01	-2.47	1.6641	-4.2545	0.3163	-0.6907	0.0370	0.1159	-2.5566		
31	9.00	-3.28	1.6636	-4.2288	0.4711	-1.0015	0.0390	0.1173	-2.5420		
32	9.01	-4.12	1.6454	-4.1273	0.5419	-1.3056	0.0310	0.1134	-2.5084		
33	9.01	-4.86	1.6201	-4.0459	0.7270	-1.5447	0.0260	0.1142	-2.4973		
34	9.02	-5.62	1.5940	-3.9414	0.8778	-1.9608	0.0150	0.1171	-2.4726		
35	9.02	-6.38	1.5714	-3.8167	1.0591	-2.3816	0.0050	0.1057	-2.4289		
36	9.00	-7.23	1.5780	-3.7910	1.1851	-2.6771	-0.0060	0.1106	-2.4024		
37	9.01	-8.00	1.5816	-3.7180	1.3391	-3.0606	-0.0030	0.1072	-2.3508		
38	9.03	-8.80	1.5388	-3.6061	1.5674	-3.6012	0.0010	0.1046	-2.3435		
39	9.03	-9.56	1.5678	-3.6477	1.6903	-4.0132	0.0100	0.0954	-2.3267		
40	9.02	-10.39	1.5570	-3.4836	1.8869	-4.4704	0.0250	0.0926	-2.2374		
41	9.02	-11.13	1.5330	-3.3010	1.9907	-4.7888	0.0390	0.0976	-2.1533		
42	9.05	-11.87	1.5516	-3.2531	2.2030	-5.1709	0.0700	0.0889	-2.0966		
43	9.07	-12.69	1.5726	-3.1755	2.2812	-5.5514	0.0710	0.0748	-2.0193		
44	9.07	-13.48	1.5293	-3.1069	2.5479	-6.0057	0.0820	0.0632	-2.0316		
45	9.06	-14.31	1.5157	-3.1708	2.6632	-6.2001	0.0940	0.0659	-2.0920		
46	9.03	-15.10	1.5297	-3.2364	2.8280	-6.3039	0.1340	0.0659	-2.1157		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6 151 0.92 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	9.07	-15.90	1.5099	-3.0307	3.0063	-6.6895	0.1480	0.0704	-2.0072	
48	9.06	-16.76	1.5282	-3.0414	3.1365	-6.8138	0.1670	0.0734	-1.9902	
49	9.04	-17.55	1.5259	-3.1591	3.1628	-6.6096	0.2500	0.1167	-2.0703	
50	9.06	-18.43	1.5938	-3.3752	3.2054	-6.4393	0.3200	0.1294	-2.1177	
51	9.03	-19.25	1.7111	-3.8373	3.2451	-5.8739	0.4009	0.1787	-2.2426	
52	9.03	-20.03	1.7568	-3.7833	3.3784	-6.0135	0.4489	0.1646	-2.1536	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RXL0-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	151	0.92	1.7	0.0	B2HOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	9.05	19.79	-1.0074	0.0184	-0.2558	-0.0183	0.2936	0.0353	0.0388	-0.0806	1.1004	-2.2843	
2	9.03	19.38	-1.0074	0.0183	-0.2559	-0.0182	0.2937	0.0462	0.0388	-0.0745	0.8408	-1.6127	
3	9.06	18.70	-0.9371	0.0164	-0.2926	-0.0175	0.3122	0.0169	0.0392	-0.0745	2.3191	-4.4064	
4	9.06	17.85	-0.9118	0.0165	-0.2797	-0.0181	0.3068	0.0158	0.0390	-0.0764	2.4679	-4.8377	
5	9.06	17.01	-0.8600	0.0152	-0.2723	-0.0177	0.3166	0.0094	0.0387	-0.0817	4.1163	-8.6881	
6	9.06	16.28	-0.8380	0.0147	-0.2553	-0.0176	0.3046	0.0637	0.0386	-0.0901	0.6066	-1.4140	
7	9.05	15.49	-0.7608	0.0159	-0.2512	-0.0209	0.3302	0.0946	0.0379	-0.0910	0.4006	-0.9617	
8	9.04	14.77	-0.7927	0.0115	-0.2328	-0.0146	0.2937	0.0572	0.0375	-0.0884	0.6564	-1.5462	
9	9.06	13.92	-0.7096	0.0121	-0.2307	-0.0171	0.3252	0.0668	0.0368	-0.0908	0.5515	-1.3599	
10	9.07	13.22	-0.6583	0.0144	-0.2155	-0.0219	0.3274	0.0428	0.0360	-0.0854	0.8421	-1.9962	
11	9.06	12.39	-0.6399	0.0154	-0.1918	-0.0241	0.2998	0.0014	0.0353	-0.0845	25.2098	-60.3810	
12	9.05	11.68	-0.5748	0.0135	-0.1824	-0.0235	0.3174	-0.0025	0.0346	-0.0871	-13.8575	34.8532	
13	9.03	10.83	-0.4944	0.0125	-0.1765	-0.0253	0.3571	0.0207	0.0341	-0.0882	1.6470	-4.2610	
14	9.04	10.09	-0.4240	0.0131	-0.1578	-0.0310	0.3721	0.0123	0.0338	-0.0910	2.7515	-7.3985	
15	9.04	9.28	-0.3818	0.0111	-0.1395	-0.0291	0.3654	-0.0431	0.0338	-0.0890	-0.7841	2.0664	
16	9.03	8.49	-0.3437	0.0121	-0.1252	-0.0352	0.3643	-0.0604	0.0335	-0.0869	-0.8303	2.1525	
17	9.03	7.66	-0.3119	0.0114	-0.1081	-0.0367	0.3467	-0.0731	0.0335	-0.0909	-0.4582	1.2443	
18	9.03	6.85	-0.2519	0.0120	-0.1001	-0.0476	0.3975	-0.0693	0.0333	-0.0913	-0.4804	1.3173	
19	9.03	6.08	-0.2345	0.0156	-0.0886	-0.0667	0.3780	-0.0383	0.0333	-0.0950	-0.8706	2.4820	
20	9.03	5.27	-0.1787	0.0198	-0.0866	-0.1108	0.4849	-0.0624	0.0334	-0.1028	-0.5352	1.6473	
21	9.00	4.48	-0.1532	0.0252	-0.0702	-0.1648	0.4585	-0.0309	0.0331	-0.1076	-1.0726	3.4821	
22	9.01	3.70	-0.0981	0.0273	-0.0700	-0.2782	0.7134	-0.0158	0.0335	-0.1150	-2.1230	7.2826	
23	8.98	2.99	-0.0749	0.0282	-0.0640	-0.3764	0.8552	-0.0835	0.0338	-0.1123	-0.4053	1.3452	
24	9.01	2.16	-0.0740	0.0247	-0.0509	-0.3337	0.6886	-0.0911	0.0341	-0.1197	-0.3742	1.3146	
25	9.01	1.41	-0.0509	0.0173	-0.0319	-0.3408	0.6259	-0.0364	0.0340	-0.1320	-0.9339	3.6272	
26	9.00	0.65	0.0082	0.0051	-0.0190	-0.6218	-2.3131	-0.0523	0.0343	-0.1348	-0.6567	2.5780	
27	9.01	-0.02	0.0171	-0.0024	-0.0089	-0.1432	-0.5206	-0.0615	0.0348	-0.1438	-0.5658	2.3381	
28	8.99	-0.89	0.0315	-0.0122	0.0138	-0.3872	0.4380	-0.0652	0.0351	-0.1564	-0.5302	2.3992	
29	9.01	-1.64	0.0507	-0.0231	0.0311	-0.4565	0.6133	-0.1448	0.0350	-0.1567	-0.2420	1.0825	
30	9.01	-2.47	0.1031	-0.0287	0.0414	-0.2783	0.4021	-0.2014	0.0349	-0.1586	-0.1733	0.7875	
31	9.00	-3.28	0.1297	-0.0291	0.0503	-0.2247	0.3880	-0.1917	0.0354	-0.1721	-0.1846	0.8982	
32	9.01	-4.12	0.1269	-0.0266	0.0701	-0.2100	0.5523	-0.3000	0.0359	-0.1679	-0.1198	0.5595	
33	9.01	-4.86	0.1778	-0.0239	0.0729	-0.1344	0.4103	-0.2392	0.0360	-0.1839	-0.1505	0.7688	
34	9.02	-5.62	0.2253	-0.0210	0.0803	-0.0932	0.3563	-0.2546	0.0357	-0.1950	-0.1402	0.7661	
35	9.02	-6.38	0.2110	-0.0159	0.0962	-0.0753	0.4560	-0.2013	0.0338	-0.2117	-0.1679	0.0520	
36	9.00	-7.23	0.2768	-0.0154	0.1029	-0.0558	0.3719	-0.1809	0.0323	-0.2191	-0.1788	1.2116	
37	9.01	-8.00	0.3020	-0.0159	0.1158	-0.0528	0.3835	-0.1653	0.0302	-0.2340	-0.1827	1.4161	
38	9.03	-8.80	0.3860	-0.0176	0.1317	-0.0456	0.3412	-0.1664	0.0281	-0.2420	-0.1688	1.4546	
39	9.03	-9.56	0.3933	-0.0170	0.1522	-0.0453	0.3868	-0.1678	0.0263	-0.2564	-0.1567	1.5281	
40	9.02	-10.39	0.4869	-0.0177	0.1625	-0.0363	0.3347	-0.1689	0.0255	-0.2740	-0.1510	1.6227	
41	9.02	-11.13	0.5096	-0.0162	0.1861	-0.0318	0.3652	-0.2364	0.0258	-0.2798	-0.1093	1.1839	
42	9.05	-11.87	0.5901	-0.0133	0.1944	-0.0225	0.3295	-0.2374	0.0246	-0.3034	-0.1038	1.2785	
43	9.07	-12.69	0.6269	-0.0154	0.2081	-0.0246	0.3519	-0.2328	0.0217	-0.3086	-0.0932	1.3259	
44	9.07	-13.48	0.6454	-0.0145	0.2266	-0.0225	0.3503	-0.2271	0.0187	-0.3154	-0.0823	1.3891	
45	9.06	-14.31	0.7132	-0.0137	0.2371	-0.0192	0.3325	-0.2274	0.0151	-0.3141	-0.0664	1.3816	
46	9.03	-15.10	0.8024	-0.0131	0.2387	-0.0163	0.2475	-0.2577	0.0144	-0.3121	-0.0561	1.2114	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 151 0.92 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	9.07	-15.90	0.8043	-0.0126	0.2599	-0.0157	0.3231	-0.2042	0.0150	-0.3269	-0.0737	1.6011
48	9.06	-16.76	0.8521	-0.0134	0.2673	-0.0157	0.3136	-0.2020	0.0119	-0.3157	-0.0591	1.5629
49	9.04	-17.55	0.8931	-0.0146	0.2652	-0.0163	0.3193	-0.2167	0.0106	-0.3170	-0.0489	1.4633
50	9.06	-18.43	0.9259	-0.0171	0.3002	-0.0185	0.3243	-0.1239	0.0096	-0.3203	-0.0779	2.5858
51	9.03	-19.23	0.9754	-0.0215	0.3036	-0.0221	0.3113	-0.0745	0.0097	-0.3067	-0.1308	4.1171
52	9.03	-20.03	1.0315	-0.0183	0.3187	-0.0177	0.3090	-0.1161	0.0098	-0.3217	-0.0848	2.7716

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST PART MACH R10-6			PHI	CONF	L	OEL1	OEL2	DEL3	OEL4	TRANSITION		
6 151 U.92 1.7			0.0 B2W0F12		0.0	U	0	U	U	FIXED		
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	9.05	19.79	-0.6416	-0.0234	-0.2252	0.0365	0.3510	0.1937	-0.0632	0.1283	-0.3262	0.6626
2	9.03	19.38	-0.6152	-0.0236	-0.2315	0.0383	0.3769	0.2344	-0.0637	0.1294	-0.2719	0.5521
3	9.06	18.70	-0.8274	-0.0421	-0.2830	0.0509	0.3420	0.1857	-0.0660	0.1137	-0.3556	0.6122
4	9.06	17.85	-0.8567	-0.0442	-0.2865	0.0516	0.3348	0.2130	-0.0636	0.1127	-0.2988	0.5290
5	9.06	17.01	-0.9217	-0.0452	-0.3236	0.0491	0.3511	0.2329	-0.0626	0.1156	-0.2687	0.4964
6	9.06	16.28	-0.9912	-0.0451	-0.3677	0.0455	0.3709	0.2264	-0.0565	0.1216	-0.2497	0.5373
7	9.05	15.49	-1.0443	-0.0431	-0.3619	0.0413	0.3465	0.2951	-0.0519	0.1160	-0.1760	0.3932
8	9.04	14.77	-0.9761	-0.0449	-0.3688	0.0460	0.3779	0.2422	-0.0529	0.1172	-0.2184	0.4839
9	9.06	13.92	-0.9515	-0.0315	-0.3880	0.0331	0.4078	0.2511	-0.0432	0.1150	-0.1720	0.4583
10	9.07	13.22	-0.9810	-0.0219	-0.3832	0.0224	0.3906	0.2607	-0.0314	0.1160	-0.1206	0.4452
11	9.06	12.39	-0.9127	-0.0144	-0.3816	0.0158	0.4181	0.2693	-0.0274	0.1219	-0.0948	0.4213
12	9.05	11.68	-0.8544	-0.0102	-0.3731	0.0119	0.4367	0.2766	-0.0264	0.1404	-0.0956	0.5074
13	9.03	10.83	-0.8427	-0.0076	-0.3385	0.0090	0.4021	0.3379	-0.0255	0.1466	-0.0756	0.4338
14	9.04	10.09	-0.7448	-0.0075	-0.3335	0.0101	0.4477	0.3468	-0.0232	0.1609	-0.0670	0.4638
15	9.04	9.28	-0.6447	-0.0062	-0.3171	0.0096	0.4919	0.3961	-0.0198	0.1593	-0.0500	0.4021
16	9.03	8.49	-0.6143	-0.0062	-0.2896	0.0102	0.4714	0.4130	-0.0152	0.1637	-0.0368	0.3964
17	9.03	7.66	-0.5498	-0.0064	-0.2684	0.0117	0.4882	0.4099	-0.0100	0.1742	-0.0245	0.4249
18	9.03	6.85	-0.4836	-0.0055	-0.2387	0.0114	0.4936	0.4933	-0.0059	0.1599	-0.0121	0.3241
19	9.03	6.08	-0.4203	-0.0045	-0.2164	0.0108	0.5149	0.4444	-0.0007	0.1603	-0.0016	0.4057
20	9.03	5.27	-0.3227	-0.0055	-0.1917	0.0170	0.5941	0.4628	0.0007	0.1844	0.0015	0.3985
21	9.00	4.48	-0.2975	-0.0049	-0.1512	0.0165	0.5083	0.5098	0.0019	0.1898	0.0038	0.3722
22	9.01	3.70	-0.2333	-0.0036	-0.1304	0.0154	0.5591	0.5529	0.0011	0.1925	0.0020	0.3482
23	8.98	2.99	-0.1312	-0.0027	-0.1118	0.0210	0.8523	0.5366	0.0017	0.2030	0.0032	0.3783
24	9.01	2.16	-0.1024	-0.0033	-0.0787	0.0322	0.7888	0.5805	0.0010	0.2080	0.0018	0.3584
25	9.01	1.41	-0.0420	-0.0034	-0.0545	0.0821	1.3070	0.5966	0.0010	0.2230	0.0018	0.3738
26	9.00	0.65	0.0266	-0.0046	-0.0333	-0.1729	-1.2533	0.8057	0.0004	0.2273	0.0007	0.3753
27	9.01	-0.02	0.0833	-0.0037	-0.0166	-0.0444	-0.1998	0.6695	0.0008	0.2287	0.0012	0.3416
28	8.99	-0.89	0.1207	-0.0046	0.0140	-0.0335	0.1161	0.6729	-0.0004	0.2411	-0.0006	0.3583
29	9.01	-1.64	0.1927	-0.0033	0.0370	-0.0174	0.1921	0.7227	-0.0009	0.2352	-0.0012	0.3255
30	9.01	-2.47	0.2359	-0.0030	0.0614	-0.0127	0.2603	0.6874	-0.0011	0.2518	-0.0016	0.3664
31	9.00	-3.28	0.2640	-0.0021	0.0578	-0.0081	0.3703	0.7145	-0.0011	0.2498	-0.0015	0.3496
32	9.01	-4.12	0.3451	-0.0002	0.1190	-0.0006	0.3448	0.6969	-0.0021	0.2584	-0.0031	0.3708
33	9.01	-4.86	0.3887	0.0017	0.1438	0.0044	0.3700	0.7561	-0.0022	0.2540	-0.0029	0.3360
34	9.02	-5.62	0.4832	0.0022	0.1708	0.0047	0.3535	0.7079	-0.0029	0.2643	-0.0041	0.3733
35	9.02	-6.38	0.5471	0.0027	0.2000	0.0049	0.3656	0.7020	-0.0029	0.2648	-0.0041	0.3772
36	9.00	-7.23	0.5895	0.0041	0.2281	0.0070	0.3870	0.6921	-0.0029	0.2683	-0.0042	0.3877
37	9.01	-8.00	0.6724	0.0057	0.2463	0.0085	0.3664	0.7334	-0.0022	0.2605	-0.0030	0.3552
38	9.03	-8.80	0.7105	0.0059	0.2766	0.0083	0.3894	0.7292	-0.0022	0.2609	-0.0030	0.3578
39	9.03	-9.56	0.8208	0.0084	0.2983	0.0102	0.3634	0.7735	-0.0006	0.2651	-0.0008	0.3428
40	9.02	-10.39	0.8389	0.0087	0.3237	0.0104	0.3859	0.7650	0.0004	0.2654	0.0005	0.3469
41	9.02	-11.13	0.9290	0.0110	0.3308	0.0119	0.3560	0.7427	0.0011	0.2634	0.0015	0.3546
42	9.05	-11.87	0.9621	0.0125	0.3574	0.0130	0.3715	0.7677	0.0011	0.2723	0.0015	0.3547
43	9.07	-12.69	0.9941	0.0160	0.3691	0.0161	0.3694	0.7679	0.0032	0.2657	0.0042	0.3460
44	9.07	-13.48	1.0753	0.0255	0.3664	0.0237	0.3407	0.7690	0.0051	0.2655	0.0067	0.3453
45	9.06	-14.31	1.0448	0.0397	0.3660	0.0380	0.3503	0.7514	0.0068	0.2590	0.0091	0.3447
46	9.03	-15.10	1.0400	0.0474	0.3462	0.0456	0.3329	0.7565	0.0078	0.2590	0.0104	0.3423

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6												
PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 151 0.92 1.7 0.0 82HOF12 0.0 0 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	9.07	-15.90	1.0737	0.3463	0.3514	0.0431	0.3273	0.7691	0.0095	0.2603	0.0124	0.3384
48	9.06	-16.76	1.0631	0.0507	0.3367	0.0477	0.3168	0.7723	0.0091	0.2530	0.0118	0.3276
49	9.04	-17.55	1.0183	0.0475	0.2745	0.0466	0.2745	0.7328	0.0080	0.2650	0.0109	0.3616
50	9.06	-18.43	0.8877	0.0458	0.2605	0.0516	0.2935	0.7315	0.0101	0.2655	0.0139	0.3630
51	9.03	-19.25	0.6893	0.0246	0.2116	0.0357	0.3070	0.7452	0.0090	0.2663	0.0121	0.3574
52	9.03	-20.03	0.6961	0.0245	0.2122	0.0353	0.3049	0.7115	0.0098	0.2675	0.0138	0.3759

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	152	0.92	1.7	0.0	8250F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	12.10	19.82	2.2259	-4.6371	-3.5457	6.1539	-0.3170	0.0176	-2.0832		
2	12.11	19.43	2.2701	-4.5990	-3.4670	6.1727	-0.3160	0.0147	-2.0259		
3	12.11	18.63	2.2433	-4.5364	-3.4024	6.0421	-0.2620	0.0126	-2.0222		
4	12.09	17.84	2.2843	-4.6008	-3.3809	6.0450	-0.2740	0.0015	-2.0141		
5	12.10	17.03	2.2270	-4.5336	-3.2479	5.9898	-0.2150	-0.0111	-2.0357		
6	12.08	16.23	2.1689	-4.4103	-3.2457	6.2017	-0.1260	-0.0309	-2.0334		
7	12.10	15.50	2.1408	-4.3330	-3.1070	6.1496	-0.0700	-0.0351	-2.0240		
8	12.09	14.70	2.1755	-4.5865	-2.9208	5.9429	-0.0360	-0.0271	-2.1082		
9	12.09	13.90	2.1489	-4.5923	-2.7850	5.7894	0.0140	-0.0340	-2.1370		
10	12.09	13.12	2.1246	-4.5013	-2.6506	5.5115	0.0320	-0.0169	-2.1106		
11	12.06	12.39	2.0989	-4.6533	-2.4507	5.2957	0.0690	-0.0038	-2.2170		
12	12.05	11.68	2.1336	-4.7568	-2.2777	4.9086	0.0900	-0.0002	-2.2295		
13	12.06	10.84	2.1892	-4.9307	-2.0511	4.4054	0.0580	0.0135	-2.2522		
14	12.06	10.03	2.2125	-4.9663	-1.8507	4.0067	0.0800	0.0272	-2.2446		
15	12.05	9.21	2.2165	-5.1038	-1.7248	3.6745	0.0790	0.0364	-2.3027		
16	12.06	8.42	2.2288	-5.1901	-1.5418	3.3044	0.0760	0.0357	-2.3286		
17	12.06	7.60	2.2241	-5.2475	-1.3637	2.9001	0.0550	0.0453	-2.3594		
18	12.05	6.84	2.2567	-5.4011	-1.2320	2.5747	0.0550	0.0569	-2.3934		
19	12.03	6.05	2.3024	-5.5820	-1.0617	2.2142	0.0420	0.0574	-2.4244		
20	12.01	5.20	2.3097	-5.6943	-0.8847	1.7655	0.0330	0.0592	-2.4654		
21	12.04	4.43	2.3022	-5.7437	-0.7160	1.4693	0.0170	0.0609	-2.4949		
22	12.04	3.61	2.3321	-5.8196	-0.6138	1.1783	0.0120	0.0680	-2.4954		
23	12.02	2.92	2.3371	-5.8756	-0.4861	0.9526	0.0250	0.0805	-2.5141		
24	12.01	2.08	2.3089	-5.8871	-0.3925	0.6601	0.0180	0.0880	-2.5497		
25	12.01	1.33	2.3264	-5.9216	-0.2452	0.4682	0.0350	0.1002	-2.5454		
26	12.03	0.60	2.3561	-5.9502	-0.1944	0.2831	0.0210	0.0993	-2.5254		
27	12.03	-0.14	2.3444	-5.8918	-0.1147	0.1496	0.0090	0.0976	-2.5131		
28	12.03	-0.95	2.3047	-5.8392	0.0476	-0.0576	0.0230	0.1083	-2.5336		
29	12.02	-1.73	2.3326	-5.8653	0.1519	-0.1726	0.0270	0.1050	-2.5145		
30	12.00	-2.58	2.3069	-5.8163	0.2907	-0.4509	0.0390	0.0991	-2.5213		
31	12.02	-3.37	2.3190	-5.8033	0.3455	-0.6306	0.0240	0.0941	-2.5025		
32	12.03	-4.14	2.3019	-5.7503	0.6262	-1.0987	0.0220	0.0975	-2.4981		
33	12.04	-4.90	2.2756	-5.6635	0.7282	-1.3514	0.0060	0.0926	-2.4888		
34	12.04	-5.71	2.2653	-5.5801	0.8290	-1.7075	-0.0090	0.0953	-2.4633		
35	12.01	-6.46	2.2036	-5.4637	1.0077	-2.1436	-0.0190	0.0911	-2.4794		
36	12.05	-7.27	2.2095	-5.2790	1.2128	-2.5589	-0.0340	0.0941	-2.3892		
37	12.05	-8.08	2.1910	-5.2291	1.3058	-2.8290	-0.0290	0.0946	-2.3866		
38	12.06	-8.88	2.1951	-5.1099	1.5181	-3.3152	-0.0310	0.0830	-2.3278		
39	12.04	-9.66	2.1477	-4.9216	1.6704	-3.6104	-0.0350	0.0748	-2.2915		
40	12.06	-10.45	2.1311	-4.7993	1.8820	-4.1105	-0.0280	0.0678	-2.2520		
41	12.06	-11.22	2.1493	-4.6190	2.0900	-4.6470	-0.0110	0.0695	-2.2425		
42	12.06	-11.97	2.1317	-4.6342	2.2296	-4.8732	0.0130	0.0791	-2.1739		
43	12.06	-12.76	2.1009	-4.6171	2.3538	-5.1171	0.0620	0.0633	-2.1170		
44	12.09	-13.54	2.1860	-4.5052	2.4642	-5.4546	0.0940	0.0517	-2.0628		
45	12.08	-14.37	2.2914	-4.5968	2.6047	-5.5753	0.1450	0.0624	-2.0061		
46	12.10	-15.27	2.2526	-4.6584	2.7331	-5.7941	0.1940	0.0606	-2.0680		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		PACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		152	0.92	1.7	0.0	02WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	12.08	-16.02	2.2356	-4.4237	2.9551	-6.2479	0.2140	0.0432	-1.9787		
48	12.07	-16.83	2.1902	-4.5211	3.0264	-6.0187	0.2530	0.0727	-2.0642		
49	12.08	-17.68	2.2291	-4.6895	3.0447	-5.8514	0.3300	0.0919	-2.1038		
50	12.07	-18.57	2.2445	-4.7481	3.1569	-5.7805	0.3750	0.1116	-2.1154		
51	12.06	-19.34	2.3214	-5.0147	3.2000	-5.5478	0.4339	0.1345	-2.1602		
52	12.07	-20.13	2.3513	-5.0756	3.3588	-5.6801	0.4869	0.1226	-2.1586		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION		
6 152 0.92 1.7			0.0	82WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	12.10	19.82	-0.8423	0.0331	-0.2784	-0.0393	0.3305	0.2072	0.0341	0.0003	0.1887	0.0017
2	12.11	19.43	-0.8530	0.0310	-0.2775	-0.0363	0.3254	0.2522	0.0386	-0.0080	0.1530	-0.0316
3	12.11	18.63	-0.7781	0.0351	-0.2614	-0.0451	0.3359	0.2529	0.0379	-0.0069	0.1498	-0.0274
4	12.09	17.84	-0.7956	0.0328	-0.2523	-0.0413	0.3171	0.1952	0.0383	0.0014	0.1962	0.0074
5	12.10	17.03	-0.7867	0.0323	-0.2386	-0.0411	0.3026	0.1912	0.0375	-0.0001	0.1964	-0.0005
6	12.08	16.23	-0.6932	0.0318	-0.2354	-0.0459	0.3396	0.1403	0.0373	0.0017	0.2658	0.0125
7	12.10	15.50	-0.6517	0.0334	-0.2106	-0.0513	0.3231	0.2063	0.0367	-0.0057	0.1779	-0.0274
8	12.09	14.70	-0.5839	0.0317	-0.2113	-0.0544	0.3618	0.1334	0.0357	0.0037	0.2676	0.0274
9	12.09	13.90	-0.5316	0.0316	-0.1889	-0.0595	0.3554	0.1553	0.0357	-0.0049	0.2302	-0.0312
10	12.09	13.12	-0.5303	0.0276	-0.1725	-0.0521	0.3253	0.1135	0.0354	-0.0024	0.3118	-0.0210
11	12.06	12.39	-0.4196	0.0269	-0.1575	-0.0642	0.3754	0.1375	0.0346	-0.0069	0.2516	-0.0501
12	12.05	11.68	-0.3495	0.0239	-0.1510	-0.0684	0.4319	0.1328	0.0345	-0.0079	0.2597	-0.0599
13	12.06	10.84	-0.3512	0.0203	-0.1407	-0.0579	0.4007	0.1041	0.0347	-0.0028	0.3333	-0.0270
14	12.06	10.03	-0.2965	0.0208	-0.1217	-0.0703	0.4104	0.0668	0.0342	-0.0034	0.5126	-0.0515
15	12.05	9.21	-0.2512	0.0232	-0.1110	-0.0523	0.4419	0.0427	0.0341	-0.0037	0.7985	-0.0860
16	12.06	8.42	-0.1875	0.0260	-0.1058	-0.1386	0.5641	0.0727	0.0338	-0.0109	0.4655	-0.1496
17	12.06	7.60	-0.1919	0.0278	-0.0973	-0.1448	0.5073	0.0473	0.0336	-0.0120	0.7102	-0.2545
18	12.05	6.84	-0.1312	0.0335	-0.0846	-0.2553	0.6450	0.0534	0.0333	-0.0181	0.6244	-0.3391
19	12.03	6.05	-0.1295	0.0371	-0.0721	-0.2864	0.5572	0.0988	0.0339	-0.0254	0.3431	-0.2569
20	12.01	5.20	-0.0749	0.0423	-0.0644	-0.5647	0.8606	0.0405	0.0338	-0.0203	0.8344	-0.5014
21	12.04	4.43	-0.0397	0.0461	-0.0602	-1.1623	1.5171	0.0637	0.0339	-0.0299	0.5321	-0.4690
22	12.04	3.61	-0.0181	0.0471	-0.0507	-2.6045	2.8028	0.0755	0.0344	-0.0394	0.4562	-0.5224
23	12.02	2.92	0.0145	0.0414	-0.0405	2.8581	-2.7909	0.0784	0.0348	-0.0466	0.4438	-0.5941
24	12.01	2.08	0.0106	0.0307	-0.0290	2.9004	-2.7328	0.0243	0.0349	-0.0528	1.4380	-2.1730
25	12.01	1.33	0.0491	0.0173	-0.0160	0.3523	-0.3267	-0.0064	0.0353	-0.0567	-5.5225	8.8645
26	12.03	0.60	-0.0181	0.0068	-0.0021	-0.3784	0.1177	0.0218	0.0359	-0.0681	1.6465	-3.1255
27	12.03	-0.14	0.0007	-0.0038	-0.0076	-5.4990	-10.8096	-0.0313	0.0360	-0.0725	-1.1500	2.3172
28	12.03	-0.95	0.0105	-0.0175	0.0139	-1.6664	1.3237	-0.0142	0.0355	-0.0879	-2.4996	6.1924
29	12.02	-1.73	0.0179	-0.0329	0.0247	-1.8377	1.3779	-0.0728	0.0357	-0.0951	-0.4903	1.3071
30	12.00	-2.58	0.0178	-0.0516	0.0404	-2.3367	2.2714	-0.0744	0.0355	-0.1079	-0.4777	1.4502
31	12.02	-3.37	0.0197	-0.0476	0.0464	-2.4158	2.3535	-0.0753	0.0357	-0.1172	-0.4747	1.5563
32	12.03	-4.14	0.0814	-0.0493	0.0510	-0.6062	0.6268	-0.0949	0.0354	-0.1244	-0.3730	1.3111
33	12.04	-4.90	0.0884	-0.0444	0.0603	-0.5022	0.6828	-0.0608	0.0351	-0.1349	-0.5772	2.2197
34	12.04	-5.71	0.0987	-0.0401	0.0704	-0.4062	0.7132	-0.1007	0.0352	-0.1363	-0.3495	1.3541
35	12.01	-6.46	0.1659	-0.0369	0.0720	-0.2224	0.4339	-0.0348	0.0351	-0.1571	-1.0084	4.5142
36	12.05	-7.27	0.1799	-0.0339	0.0847	-0.1884	0.4711	-0.0255	0.0339	-0.1645	-1.3292	6.4509
37	12.05	-8.08	0.2029	-0.0281	0.0952	-0.1385	0.4692	-0.0221	0.0312	-0.1789	-1.4138	8.0979
38	12.06	-8.88	0.2333	-0.0265	0.1117	-0.1136	0.4789	-0.0430	0.0296	-0.1888	-0.6882	4.3914
39	12.04	-9.66	0.2924	-0.0253	0.1187	-0.0867	0.4060	-0.0122	0.0278	-0.2014	-2.2783	16.5135
40	12.06	-10.45	0.3784	-0.0290	0.1246	-0.0767	0.3293	-0.0707	0.0265	-0.2044	-0.3755	2.8919
41	12.06	-11.22	0.3924	-0.0323	0.1504	-0.0824	0.3832	-0.0226	0.0248	-0.2299	1.0971	-10.1756
42	12.06	-11.97	0.4395	-0.0298	0.1702	-0.0678	0.3871	-0.0660	0.0220	-0.2369	-0.3333	3.5908
43	12.06	-12.76	0.5234	-0.0271	0.1891	-0.0518	0.3613	-0.0951	0.0204	-0.2622	-0.2150	2.7580
44	12.09	-13.54	0.5930	-0.0282	0.1971	-0.0475	0.3324	-0.1227	0.0180	-0.2677	-0.1467	2.1824
45	12.08	-14.37	0.6249	-0.0264	0.2194	-0.0423	0.3511	-0.1088	0.0162	-0.2908	-0.1489	2.6733
46	12.10	-15.27	0.7116	-0.0245	0.2316	-0.0344	0.3255	-0.0960	0.0161	-0.2878	-0.1677	2.9988

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 152 0.92 1.7 0.0 BZWOF12 0.0 0 0 0 0 FIXED

PGINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	12.08	-16.02	0.7674	-0.0231	0.2471	-0.0301	0.3220	-0.1364	0.0169	-0.2968	-0.1239	2.1763
48	12.07	-16.83	0.7425	-0.0278	0.2690	-0.0375	0.3623	-0.0800	0.0122	-0.2749	-0.1531	3.4370
49	12.08	-17.68	0.8304	-0.0259	0.2703	-0.0312	0.3255	-0.0969	0.0118	-0.2827	-0.1223	2.9184
50	12.07	-18.57	0.8829	-0.0296	0.2764	-0.0336	0.3131	-0.0351	0.0112	-0.2777	-0.3205	7.9144
51	12.06	-19.34	0.8738	-0.0324	0.2964	-0.0371	0.3392	0.0028	0.0112	-0.2746	4.0171	-98.0953
52	12.07	-20.13	0.9809	-0.0285	0.3010	-0.0290	0.3068	-0.0135	0.0118	-0.2949	-0.8776	21.8517

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 152 0.92 1.7			0.0	B2W0F12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	12.10	19.82	-0.7662	-0.0265	-0.2887	0.0346	0.3768	0.3817	-0.0633	0.1643	-0.1659	0.4304
2	12.11	19.43	-0.7843	-0.0267	-0.2871	0.0341	0.3661	0.3697	-0.0641	0.1722	-0.1645	0.4417
3	12.11	18.63	-0.8513	-0.0363	-0.2921	0.0426	0.3431	0.3487	-0.0645	0.1699	-0.1849	0.4872
4	12.09	17.84	-0.8446	-0.0440	-0.3031	0.0492	0.3388	0.3161	-0.0649	0.1594	-0.2054	0.5043
5	12.10	17.03	-0.9617	-0.0462	-0.3257	0.0481	0.3386	0.3274	-0.0626	0.1618	-0.1913	0.4941
6	12.08	16.23	-1.0422	-0.0437	-0.3644	0.0419	0.3496	0.3693	-0.0570	0.1529	-0.1544	0.4139
7	12.10	15.50	-1.0353	-0.0414	-0.3865	0.0400	0.3733	0.4450	-0.0515	0.1542	-0.1157	0.3465
8	12.09	14.70	-1.0030	-0.0459	-0.3896	0.0457	0.3884	0.3963	-0.0511	0.1809	-0.1289	0.4563
9	12.09	13.90	-1.0301	-0.0327	-0.3890	0.0317	0.3777	0.4606	-0.0440	0.1747	-0.0955	0.3792
10	12.09	13.12	-0.9867	-0.0215	-0.4015	0.0218	0.4073	0.4583	-0.0375	0.1741	-0.0819	0.3755
11	12.06	12.39	-0.9389	-0.0165	-0.3889	0.0176	0.4141	0.4636	-0.0314	0.1955	-0.0677	0.4216
12	12.05	11.68	-0.9371	-0.0111	-0.3690	0.0119	0.3937	0.5148	-0.0276	0.1894	-0.0537	0.3680
13	12.06	10.84	-0.8127	-0.0079	-0.3693	0.0097	0.4544	0.5004	-0.0265	0.1926	-0.0529	0.3850
14	12.06	10.03	-0.8067	-0.0081	-0.3318	0.0101	0.4113	0.5470	-0.0194	0.1959	-0.0355	0.3581
15	12.05	9.21	-0.7462	-0.0075	-0.3091	0.0101	0.4143	0.5554	-0.0159	0.2082	-0.0287	0.3748
16	12.06	8.42	-0.6514	-0.0072	-0.2625	0.0110	0.4491	0.6106	-0.0111	0.2071	-0.0183	0.3391
17	12.06	7.60	-0.5482	-0.0065	-0.2680	0.0119	0.4888	0.6146	-0.0083	0.2104	-0.0135	0.3423
18	12.05	6.84	-0.5018	-0.0066	-0.2358	0.0131	0.4699	0.6114	-0.0028	0.2236	-0.0046	0.3658
19	12.03	6.05	-0.4409	-0.0067	-0.2194	0.0153	0.4976	0.6491	-0.0014	0.2246	-0.0022	0.3460
20	12.01	5.20	-0.3200	-0.0070	-0.1888	0.0219	0.5900	0.6825	-0.0004	0.2270	-0.0007	0.3326
21	12.04	4.43	-0.2508	-0.0077	-0.1618	0.0307	0.6454	0.7195	0.0019	0.2299	0.0026	0.3196
22	12.04	3.61	-0.2076	-0.0056	-0.1316	0.0272	0.6338	0.7068	0.0022	0.2475	0.0032	0.3502
23	12.02	2.92	-0.1324	-0.0058	-0.1073	0.0438	0.8106	0.7765	0.0033	0.2454	0.0042	0.3161
24	12.01	2.08	-0.1094	-0.0038	-0.0768	0.0347	0.7025	0.7476	0.0037	0.2571	0.0047	0.3223
25	12.01	1.33	-0.0884	-0.0030	-0.0602	0.3630	7.1665	0.8098	0.0036	0.2739	0.0044	0.3383
26	12.03	0.60	0.0205	-0.0037	-0.0283	-0.1805	-1.3790	0.8182	0.0029	0.2878	0.0036	0.3518
27	12.03	-0.14	0.0439	-0.0026	0.0002	-0.0604	0.0052	0.8746	0.0030	0.2827	0.0034	0.3233
28	12.03	-0.45	0.1086	-0.0035	0.0267	-0.0322	0.2457	0.8517	0.0029	0.2998	0.0034	0.3520
29	12.02	-1.73	0.2061	-0.0021	0.0419	-0.0104	0.2032	0.9156	0.0022	0.2986	0.0025	0.3261
30	12.00	-2.58	0.2228	-0.0019	0.0751	-0.0085	0.3373	0.9505	0.0005	0.3065	0.0005	0.3225
31	12.02	-3.37	0.2839	-0.0004	0.1024	-0.0014	0.3607	0.9693	0.0009	0.3068	0.0009	0.3165
32	12.03	-4.14	0.3343	0.0016	0.1313	0.0049	0.3927	0.9452	0.0	0.3174	0.0	0.3358
33	12.04	-4.90	0.4288	0.0033	0.1526	0.0078	0.3558	0.9809	0.0004	0.3136	0.0004	0.3197
34	12.04	-5.71	0.4848	0.0046	0.1862	0.0096	0.3842	0.9460	0.0003	0.3248	0.0004	0.3434
35	12.01	-6.46	0.5677	0.0050	0.2128	0.0088	0.3748	0.9662	-0.0007	0.3250	-0.0008	0.3363
36	12.05	-7.27	0.6040	0.0064	0.2486	0.0107	0.4107	0.9867	-0.0014	0.3233	-0.0015	0.3276
37	12.05	-8.08	0.6775	0.0071	0.2694	0.0106	0.3977	1.0239	0.0003	0.3224	0.0003	0.3149
38	12.06	-8.88	0.7596	0.0084	0.2903	0.0111	0.3727	0.9829	0.0011	0.3361	0.0012	0.3420
39	12.04	-9.66	0.8310	0.0091	0.3121	0.0109	0.3756	0.9665	0.0014	0.3304	0.0014	0.3418
40	12.06	-10.45	0.8440	0.0115	0.3415	0.0137	0.4046	1.0244	0.0014	0.3227	0.0014	0.3150
41	12.06	-11.22	0.9341	0.0141	0.3616	0.0151	0.3864	1.0101	0.0023	0.3311	0.0023	0.3278
42	12.06	-11.97	1.0143	0.0168	0.3583	0.0166	0.3532	0.9964	0.0046	0.3340	0.0047	0.3352
43	12.06	-12.76	1.0348	0.0227	0.3713	0.0219	0.3588	1.0122	0.0058	0.3365	0.0057	0.3324
44	12.09	-13.54	1.0566	0.0341	0.3745	0.0323	0.3544	0.9873	0.0074	0.3388	0.0075	0.3431
45	12.08	-14.37	1.1084	0.0376	0.3712	0.0348	0.3349	0.9905	0.0092	0.3383	0.0093	0.3413
46	12.10	-15.27	1.0769	0.0470	0.3551	0.0437	0.3298	1.0286	0.0107	0.3385	0.0104	0.3290

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6												
6 152 0.94 1.7												
PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 B2WOF12 0.0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
47	12.08	-16.02	1.0991	0.0452	0.3639	0.0411	0.3311	1.0299	0.0115	0.3306	0.0112	0.3210
48	12.07	-16.83	0.9808	0.0498	0.3105	0.0508	0.3170	1.0677	0.0104	0.3216	0.0097	0.3012
49	12.08	-17.68	0.9341	0.0481	0.2827	0.0515	0.3026	1.0276	0.0119	0.3401	0.0116	0.3310
50	12.07	-18.57	0.8732	0.0311	0.2453	0.0357	0.2809	1.0307	0.0110	0.3417	0.0107	0.3316
51	12.06	-19.34	0.7556	0.0234	0.2206	0.0310	0.2919	0.9948	0.0123	0.3481	0.0124	0.3499
52	12.07	-20.13	0.7347	0.0234	0.2308	0.0318	0.3142	1.0075	0.0135	0.3441	0.0134	0.3416

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6 153 0.92 1.7 0.0 82W0F12 0.0 0 0 0 0 FIXED										
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	15.10	19.80	2.8242	-5.4247	-3.6621	6.0178	-0.3120	0.0069	-1.9208	
2	15.10	19.40	2.8638	-5.4382	-3.6620	5.8307	-0.3140	0.0070	-1.8989	
3	15.10	18.66	2.8654	-5.4464	-3.5274	5.8753	-0.2570	0.0052	-1.9007	
4	15.11	17.80	2.8582	-5.4893	-3.4366	5.7470	-0.2370	-0.0053	-1.9205	
5	15.09	16.99	2.8396	-5.5833	-3.3205	5.5385	-0.1650	-0.0209	-1.9662	
6	15.10	16.21	2.7491	-5.1606	-3.3485	6.0437	-0.0270	-0.0482	-1.8772	
7	15.09	15.44	2.6844	-5.3670	-3.2938	6.2151	0.0650	-0.0672	-2.0067	
8	15.09	14.67	2.6870	-5.5396	-3.0624	5.8801	0.1040	-0.0582	-2.0616	
9	15.07	13.89	2.6943	-5.4999	-2.9028	5.8897	0.1340	-0.0452	-2.0413	
10	15.06	13.11	2.6950	-5.4616	-2.7186	5.5949	0.1180	-0.0328	-2.0266	
11	15.07	12.36	2.7315	-5.5329	-2.4939	5.3762	0.1320	-0.0203	-2.0256	
12	15.06	11.59	2.7425	-5.7323	-2.2979	4.9018	0.1360	-0.0084	-2.0901	
13	15.06	10.79	2.8018	-5.9503	-2.2166	4.5029	0.1650	-0.0133	-2.1237	
14	15.04	9.93	2.7823	-6.1560	-1.9124	3.8543	0.1690	-0.0024	-2.2125	
15	15.05	9.17	2.8365	-6.2328	-1.7624	3.5512	0.1410	-0.0100	-2.1973	
16	15.01	8.35	2.8801	-6.5338	-1.5445	3.1692	0.1540	0.0038	-2.2686	
17	15.02	7.55	2.9049	-6.7415	-1.4069	2.5856	0.1490	0.0080	-2.3207	
18	14.99	6.74	2.9262	-6.8603	-1.2501	2.2261	0.1150	0.0091	-2.3444	
19	15.00	5.95	2.9843	-7.0337	-1.0037	1.8901	0.0840	0.0153	-2.3569	
20	15.00	5.09	2.9551	-7.0738	-0.8425	1.4445	0.0690	0.0211	-2.3937	
21	14.99	4.30	3.0027	-7.1564	-0.7092	1.0609	0.0670	0.0384	-2.3833	
22	14.97	3.53	2.9693	-7.2336	-0.5528	0.8489	0.0710	0.0477	-2.4361	
23	14.98	2.83	3.0050	-7.2646	-0.4397	0.6646	0.0920	0.0543	-2.4175	
24	14.97	2.00	2.9846	-7.2590	-0.3688	0.4743	0.0790	0.0541	-2.4322	
25	14.97	1.21	3.0129	-7.3057	-0.2961	0.3295	0.0420	0.0636	-2.4248	
26	14.98	0.50	2.9906	-7.3584	-0.1871	0.2479	0.0420	0.0692	-2.4605	
27	15.00	-0.25	3.0132	-7.3761	-0.0814	0.3019	0.0310	0.0724	-2.4479	
28	14.97	-1.08	3.0050	-7.3056	-0.0421	0.1779	0.0260	0.0699	-2.4311	
29	14.99	-1.86	2.9980	-7.2808	0.0935	0.1231	-0.0010	0.0802	-2.4285	
30	14.97	-2.69	3.0219	-7.3223	0.2003	-0.1804	0.0120	0.0726	-2.4231	
31	14.97	-3.53	2.9896	-7.2920	0.3517	-0.3423	-0.0040	0.0687	-2.4391	
32	14.98	-4.29	3.0261	-7.2601	0.5078	-0.7090	-0.0210	0.0675	-2.3992	
33	14.99	-5.04	2.9648	-7.1303	0.6896	-1.0524	-0.0350	0.0714	-2.4050	
34	14.97	-5.88	2.9031	-6.9910	0.8418	-1.4695	-0.0630	0.0703	-2.4081	
35	14.98	-6.60	2.9232	-6.9471	1.0355	-1.8566	-0.0710	0.0706	-2.3765	
36	14.99	-7.45	2.9159	-6.8059	1.2688	-2.3133	-0.0890	0.0679	-2.3341	
37	15.00	-8.25	2.8456	-6.5915	1.4778	-2.7568	-0.1180	0.0718	-2.3164	
38	15.02	-9.02	2.8528	-6.3706	1.5784	-3.1746	-0.0780	0.0627	-2.2331	
39	15.02	-9.84	2.8337	-6.1699	1.7447	-3.7154	-0.0700	0.0631	-2.1773	
40	15.01	-10.63	2.7937	-6.0000	1.9392	-4.1208	-0.0720	0.0581	-2.1476	
41	15.00	-11.35	2.7584	-5.8346	2.0735	-4.5507	-0.0370	0.0617	-2.1152	
42	15.00	-12.14	2.7530	-5.7480	2.3476	-4.9824	-0.0470	0.0529	-2.0879	
43	15.02	-12.89	2.7595	-5.7431	2.5331	-5.2321	-0.0460	0.0482	-2.0812	
44	15.02	-13.72	2.7595	-5.5881	2.5968	-5.4062	-0.0060	0.0323	-2.0250	
45	15.03	-14.56	2.7580	-5.6930	2.7993	-5.2819	0.0180	0.0522	-2.0642	
46	15.03	-15.38	2.8011	-5.4204	2.9333	-5.6254	0.0960	0.0456	-1.9351	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 153 0.92 1.7 0.0 82WOF12 0.0 0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	15.04	-16.24	2.7970	-5.5116	2.4798	-5.8105	0.1440	0.0502	-1.9705
48	15.06	-16.97	2.8630	-5.5940	3.0722	-5.3109	0.2500	0.0807	-1.9539
49	15.03	-17.92	2.8645	-5.6541	3.1793	-5.4999	0.3030	0.0762	-1.9738
50	15.04	-18.72	2.8524	-5.5992	3.2405	-5.5225	0.3899	0.0744	-1.9630
51	15.08	-19.57	3.0318	-5.7003	3.3451	-5.4780	0.4559	0.0754	-1.8802
52	15.06	-20.11	3.0100	-5.8458	3.4173	-5.3861	0.4789	0.0829	-1.9421

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			153		0.92		1.7	0.0	82WUF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2		
1	15.10	19.80	-0.7546	0.0539	-0.2622	-0.0714	0.3475	0.3993	0.0446	0.0269	0.1116	0.0673		
2	15.10	19.40	-0.7382	0.0537	-0.2590	-0.0727	0.3508	0.4283	0.0443	0.0212	0.1034	0.0496		
3	15.10	18.66	-0.7005	0.0539	-0.2527	-0.0769	0.3608	0.4356	0.0445	0.0201	0.1021	0.0461		
4	15.11	17.80	-0.6802	0.0535	-0.2433	-0.0787	0.3578	0.3977	0.0440	0.0246	0.1107	0.0620		
5	15.09	16.99	-0.6290	0.0541	-0.2241	-0.0860	0.3563	0.3928	0.0443	0.0210	0.1127	0.0535		
6	15.10	16.21	-0.5339	0.0537	-0.2138	-0.1005	0.4004	0.3805	0.0444	0.0165	0.1168	0.0434		
7	15.09	15.44	-0.5027	0.0521	-0.1832	-0.1036	0.3644	0.3803	0.0439	0.0117	0.1155	0.0306		
8	15.09	14.67	-0.4264	0.0505	-0.1784	-0.1185	0.4183	0.3371	0.0440	0.0132	0.1306	0.0390		
9	15.07	13.89	-0.3784	0.0497	-0.1789	-0.1313	0.4727	0.3827	0.0462	0.0005	0.1208	0.0012		
10	15.06	13.11	-0.3612	0.0493	-0.1763	-0.1364	0.4879	0.3112	0.0473	0.0031	0.1519	0.0101		
11	15.07	12.36	-0.3883	0.0487	-0.1583	-0.1255	0.4076	0.2426	0.0488	0.0000	0.2011	0.0002		
12	15.06	11.59	-0.3204	0.0498	-0.1427	-0.1554	0.4452	0.3093	0.0482	-0.0071	0.1559	-0.0230		
13	15.06	10.79	-0.2444	0.0470	-0.1230	-0.1923	0.5034	0.3513	0.0454	-0.0042	0.1292	-0.0120		
14	15.04	9.93	-0.1541	0.0424	-0.0902	-0.2754	0.5856	0.3863	0.0412	-0.0026	0.1067	-0.0068		
15	15.05	9.17	-0.1663	0.0447	-0.0869	-0.2687	0.5226	0.3718	0.0420	-0.0052	0.1129	-0.0139		
16	15.01	8.35	-0.0832	0.0434	-0.0712	-0.5221	0.8561	0.3957	0.0413	-0.0100	0.1045	-0.0253		
17	15.02	7.55	-0.0367	0.0409	-0.0434	-1.1142	1.1833	0.3573	0.0380	-0.0009	0.1063	-0.0025		
18	14.99	6.74	-0.0211	0.0446	-0.0607	-2.1134	2.8782	0.3581	0.0401	-0.0072	0.1121	-0.0202		
19	15.00	5.95	-0.0286	0.0512	-0.0573	-1.7899	2.0045	0.3341	0.0409	-0.0060	0.1225	-0.0181		
20	15.00	5.09	0.0131	0.0558	-0.0402	4.2588	-3.0714	0.3587	0.0349	-0.0116	0.1085	-0.0324		
21	14.99	4.30	0.0937	0.0549	-0.0244	0.5858	-0.2602	0.3539	0.0368	-0.0091	0.1039	-0.0258		
22	14.97	3.53	0.1301	0.0458	-0.0124	0.3831	-0.0957	0.2756	0.0361	-0.0070	0.1309	-0.0255		
23	14.98	2.83	0.1342	0.0311	0.0143	0.2321	0.1067	0.2806	0.0369	-0.0123	0.1839	-0.0611		
24	14.97	2.00	0.0961	0.0198	0.0159	0.2060	0.1657	0.2165	0.0370	-0.0231	0.1709	-0.1065		
25	14.97	1.21	0.0588	0.0151	-0.0033	0.2568	-0.0562	0.2016	0.0379	-0.0252	0.1882	-0.1251		
26	14.98	0.50	0.0443	0.0014	-0.0022	0.0316	-0.0505	0.2148	0.0381	-0.0419	0.1773	-0.1952		
27	15.00	-0.25	-0.0150	-0.0121	0.0066	0.8065	-0.4401	0.2122	0.0383	-0.0566	0.1805	-0.2667		
28	14.97	-1.08	-0.0458	-0.0256	0.0128	0.5589	-0.2803	0.1813	0.0377	-0.0649	0.2079	-0.3579		
29	14.99	-1.86	-0.0895	-0.0338	0.0020	0.3776	-0.0221	0.2289	0.0381	-0.0811	0.1664	-0.3544		
30	14.97	-2.69	-0.0308	-0.0470	0.0202	1.5273	-0.6570	0.2093	0.0363	-0.0901	0.1736	-0.4308		
31	14.97	-3.53	-0.0368	-0.0551	0.0243	1.4970	-0.6614	0.1650	0.0356	-0.0960	0.2160	-0.5819		
32	14.98	-4.29	-0.0349	-0.0597	0.0318	1.7117	-0.9103	0.1953	0.0356	-0.1074	0.1823	-0.5500		
33	14.99	-5.04	-0.0001	-0.0586	0.0382	586.3953	-381.6667	0.1757	0.0349	-0.1140	0.1909	-0.6471		
34	14.97	-5.88	-0.0041	-0.0527	0.0440	12.8514	-10.7400	0.1652	0.0347	-0.1221	0.2100	-0.7394		
35	14.98	-6.60	0.0509	-0.0479	0.0517	-0.9409	1.0149	0.1793	0.0338	-0.1292	0.1888	-0.7209		
36	14.99	-7.45	0.0948	-0.0423	0.0549	-0.4461	0.3790	0.1122	0.0336	-0.1284	0.2994	-1.1445		
37	15.00	-8.25	0.0580	-0.0408	0.0623	-0.7033	1.0746	0.1284	0.0331	-0.1338	0.2577	-1.0422		
38	15.02	-9.02	0.1727	-0.0415	0.0867	-0.2405	0.5023	0.1625	0.0298	-0.1606	0.1834	-0.9886		
39	15.02	-9.84	0.2690	-0.0490	0.1246	-0.1823	0.4633	0.1439	0.0265	-0.1759	0.1845	-1.2227		
40	15.01	-10.63	0.3099	-0.0460	0.1199	-0.1485	0.3868	0.1584	0.0257	-0.1856	0.1625	-1.1718		
41	15.00	-11.35	0.3494	-0.0490	0.1553	-0.1402	0.4445	0.1252	0.0233	-0.2019	0.1865	-1.6133		
42	15.00	-12.14	0.3611	-0.0503	0.1668	-0.1394	0.4620	0.1273	0.0217	-0.2088	0.1708	-1.6409		
43	15.02	-12.89	0.4173	-0.0505	0.1633	-0.1211	0.3912	0.1413	0.0190	-0.2080	0.1348	-1.4722		
44	15.02	-13.72	0.4310	-0.0515	0.1884	-0.1196	0.4371	0.1052	0.0163	-0.2174	0.1554	-2.0670		
45	15.03	-14.56	0.4695	-0.0538	0.1760	-0.1147	0.3750	0.0858	0.0161	-0.2174	0.1876	-2.5339		
46	15.03	-15.38	0.5117	-0.0531	0.2146	-0.1038	0.4194	0.0981	0.0157	-0.2470	0.2710	-4.2520		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION													
6 153 0.92 1.7 0.0 82WOF12 0.0 0 0 0 0 0 FIXED													
POINT	ALPHA	BETA	CNF1	CM1	CB1	XC PF1	YC PF1	CNF2	CM2	CB2	XC PF2	YC PF2	
47	15.04	-16.24	0.6181	-0.0524	0.2305	-0.0848	0.3728	0.0881	0.0133	-0.2496	0.1509	-2.8336	
48	15.06	-16.97	0.6568	-0.0565	0.2318	-0.0861	0.3530	0.0285	0.0118	-0.2513	0.4157	-8.8177	
49	15.03	-17.92	0.7745	-0.0517	0.2536	-0.0667	0.3274	0.0837	0.0133	-0.2421	0.1589	-2.8926	
50	15.04	-18.72	0.8565	-0.0471	0.2752	-0.0550	0.3213	0.0363	0.0132	-0.2604	0.3636	-7.1737	
51	15.08	-19.57	0.8445	-0.0524	0.2786	-0.0621	0.3299	-0.0059	0.0126	-0.2742	-2.1437	46.4857	
52	15.06	-20.11	0.8117	-0.0566	0.2811	-0.0698	0.3463	0.0165	0.0119	-0.2847	0.7211	-17.2547	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	153	0.92 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	15.10	19.80	-0.0434	-0.0220	-0.2842	0.0261	0.3370	0.4218	-0.0599	0.1901	-0.1421	0.4508
2	15.10	19.40	-0.7991	-0.0219	-0.2551	0.0274	0.3693	0.4462	-0.0601	0.1803	-0.1346	0.4040
3	15.10	18.66	-0.8948	-0.0304	-0.3061	0.0340	0.3420	0.4317	-0.0603	0.1939	-0.1396	0.4492
4	15.11	17.80	-0.8686	-0.0418	-0.3058	0.0482	0.3521	0.5061	-0.0619	0.1853	-0.1224	0.3662
5	15.09	16.99	-0.9431	-0.0463	-0.3088	0.0491	0.3274	0.5490	-0.0624	0.1972	-0.1136	0.3593
6	15.10	16.21	-1.0378	-0.0470	-0.3689	0.0453	0.3555	0.5582	-0.0590	0.2004	-0.1057	0.3590
7	15.09	15.44	-1.0820	-0.0435	-0.4031	0.0402	0.3126	0.5799	-0.0523	0.2168	-0.0902	0.3739
8	15.09	14.67	-1.0836	-0.0447	-0.4006	0.0413	0.3697	0.6335	-0.0494	0.2205	-0.0780	0.3481
9	15.07	13.89	-1.0440	-0.0271	-0.4210	0.0260	0.4032	0.5938	-0.0451	0.2278	-0.0760	0.3836
10	15.06	13.11	-1.0587	-0.0192	-0.4054	0.0181	0.3829	0.6123	-0.0407	0.2183	-0.0665	0.3566
11	15.07	12.36	-0.9754	-0.0127	-0.4125	0.0131	0.4229	0.6056	-0.0347	0.2209	-0.0574	0.3647
12	15.06	11.59	-0.9122	-0.0100	-0.3910	0.0110	0.4286	0.6699	-0.0282	0.2239	-0.0422	0.3343
13	15.06	10.79	-0.8638	-0.0101	-0.3684	0.0117	0.4265	0.6636	-0.0226	0.2389	-0.0340	0.3600
14	15.04	9.93	-0.7573	-0.0102	-0.3503	0.0135	0.4626	0.7276	-0.0141	0.2419	-0.0194	0.3325
15	15.05	9.17	-0.7117	-0.0101	-0.3209	0.0142	0.4509	0.7470	-0.0120	0.2448	-0.0161	0.3277
16	15.01	8.35	-0.6108	-0.0110	-0.3065	0.0180	0.5025	0.7904	-0.0067	0.2536	-0.0085	0.3208
17	15.02	7.55	-0.5867	-0.0108	-0.2643	0.0185	0.4505	0.8124	-0.0013	0.2586	-0.0016	0.3183
18	14.99	6.74	-0.4506	-0.0110	-0.2509	0.0245	0.5569	0.7766	-0.0038	0.2712	-0.0049	0.3492
19	15.00	5.95	-0.3987	-0.0109	-0.2194	0.0275	0.5504	0.8158	-0.0034	0.2681	-0.0042	0.3287
20	15.00	5.09	-0.3216	-0.0118	-0.1798	0.0368	0.5589	0.8265	0.0008	0.2718	0.0010	0.3289
21	14.99	4.30	-0.2344	-0.0106	-0.1628	0.0454	0.6946	0.8386	0.0051	0.2824	0.0061	0.3368
22	14.97	3.53	-0.2030	-0.0086	-0.1328	0.0424	0.6544	0.8856	0.0047	0.2869	0.0076	0.3240
23	14.98	2.83	-0.1049	-0.0077	-0.1076	0.0734	1.0263	0.9360	0.0095	0.2956	0.0102	0.3158
24	14.97	2.00	-0.1109	-0.0055	-0.0710	0.0500	0.6407	0.9404	0.0086	0.3081	0.0092	0.3276
25	14.97	1.21	-0.0477	-0.0038	-0.0441	0.0807	0.9244	0.9881	0.0032	0.3126	0.0083	0.3163
26	14.98	0.50	0.0330	-0.0038	-0.0226	-0.1151	-0.6850	1.0068	0.0070	0.3250	0.0070	0.3228
27	15.00	-0.25	0.0862	-0.0033	0.0000	-0.0383	0.0003	1.0360	0.0068	0.3395	0.0066	0.3277
28	14.97	-1.08	0.1773	-0.0033	0.0199	-0.0189	0.1121	1.0566	0.0057	0.3449	0.0054	0.3264
29	14.99	-1.86	0.1954	-0.0021	0.0545	-0.0107	0.2790	1.1130	0.0046	0.3466	0.0041	0.3114
30	14.97	-2.69	0.2421	-0.0001	0.0815	-0.0004	0.3365	1.1385	0.0064	0.3555	0.0057	0.3122
31	14.97	-3.53	0.3240	0.0018	0.1066	0.0056	0.3289	1.1525	0.0045	0.3602	0.0039	0.3126
32	14.98	-4.29	0.3662	0.0053	0.1389	0.0145	0.3794	1.1317	0.0052	0.3698	0.0046	0.3268
33	14.99	-5.04	0.4650	0.0067	0.1626	0.0145	0.3498	1.1500	0.0057	0.3622	0.0050	0.3150
34	14.97	-5.88	0.5475	0.0072	0.1927	0.0131	0.3520	1.1846	0.0053	0.3593	0.0045	0.3033
35	14.98	-6.60	0.6046	0.0078	0.2251	0.0130	0.3722	1.2102	0.0080	0.3571	0.0066	0.2950
36	14.99	-7.45	0.6806	0.0083	0.2578	0.0123	0.3788	1.1715	0.0074	0.3687	0.0064	0.3147
37	15.00	-8.25	0.7317	0.0115	0.2827	0.0157	0.3864	1.1930	0.0071	0.3662	0.0059	0.3070
38	15.02	-9.02	0.8190	0.0101	0.3091	0.0123	0.3774	1.1485	0.0115	0.3717	0.0100	0.3236
39	15.02	-9.84	0.8768	0.0099	0.3299	0.0113	0.3762	1.1732	0.0245	0.3402	0.0209	0.2968
40	15.01	-10.63	0.9591	0.0114	0.3501	0.0119	0.3650	1.1899	0.0173	0.3578	0.0146	0.3007
41	15.00	-11.35	0.9959	0.0121	0.3655	0.0121	0.3674	1.1496	0.0222	0.3595	0.0193	0.3127
42	15.00	-12.14	1.0744	0.0169	0.3853	0.0157	0.3586	1.1932	0.0242	0.3525	0.0203	0.2954
43	15.02	-12.89	1.1098	0.0259	0.3898	0.0233	0.3512	1.2134	0.0211	0.3581	0.0174	0.2951
44	15.02	-13.72	1.1714	0.0320	0.3828	0.0273	0.3268	1.1622	0.0210	0.3664	0.0181	0.3152
45	15.03	-14.56	1.1243	0.0500	0.3705	0.0445	0.3296	1.2332	0.0152	0.3713	0.0123	0.3011
46	15.03	-15.38	1.1276	0.0461	0.3789	0.0409	0.3361	1.2335	0.0213	0.3644	0.0173	0.2954

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 153 0.92 1.7				0.0	B2WUFL2	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	15.04	-16.24	1.1207	0.0507	0.3526	0.0452	0.3147	1.1713	0.0278	0.3677	0.0238	0.3139
48	15.06	-16.97	1.0253	0.0493	0.2528	0.0481	0.2855	1.2409	0.0222	0.3703	0.0179	0.2984
49	15.03	-17.92	0.9499	0.0390	0.2832	0.0410	0.2982	1.2239	0.0242	0.3725	0.0198	0.3044
50	15.04	-18.72	0.8988	0.0279	0.2634	0.0310	0.2931	1.1784	0.0268	0.3753	0.0228	0.3185
51	15.08	-19.57	0.8417	0.0212	0.2528	0.0252	0.3003	1.2434	0.0251	0.3715	0.0202	0.2988
52	15.06	-20.11	0.8146	0.0215	0.2462	0.0264	0.3023	1.2195	0.0247	0.3716	0.0203	0.3047

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	154	0.92	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	18.22	19.83	3.2982	-5.1184	-3.7708	5.9190	-0.1070	-0.0403	-1.5519	
2	18.19	19.43	3.2611	-5.1814	-3.7480	5.8421	-0.1080	-0.0373	-1.5809	
3	18.23	18.70	3.2857	-5.2309	-3.6139	5.8324	-0.0740	-0.0555	-1.5920	
4	18.19	17.05	3.2530	-5.2421	-3.5571	5.7179	-0.0410	-0.0411	-1.6115	
5	18.19	17.08	3.2384	-5.3826	-3.3599	5.5227	0.0160	-0.0474	-1.6621	
6	18.19	16.24	3.1452	-5.0512	-3.3847	6.2183	0.1720	-0.0559	-1.6060	
7	18.19	15.50	3.2153	-5.3073	-3.1794	6.0349	0.2070	-0.0576	-1.6506	
8	18.15	14.69	3.1019	-5.2625	-3.1404	6.0243	0.2860	-0.0542	-1.6966	
9	18.16	13.88	3.1826	-5.4355	-2.9686	5.9068	0.3090	-0.0385	-1.7079	
10	18.15	13.13	3.1707	-5.3688	-2.8521	5.7837	0.3270	-0.0152	-1.6933	
11	18.13	12.34	3.2092	-5.6677	-2.7151	5.4790	0.3470	-0.0208	-1.7661	
12	18.14	11.57	3.1933	-5.8664	-2.5147	5.1343	0.3550	-0.0128	-1.8371	
13	18.14	10.79	3.2081	-6.0261	-2.3432	4.6663	0.3380	-0.0156	-1.8784	
14	18.11	9.95	3.2215	-6.2448	-2.0891	4.1966	0.3140	-0.0045	-1.9382	
15	18.09	9.12	3.2652	-6.5770	-1.9078	3.8728	0.3280	-0.0027	-2.0143	
16	18.07	8.30	3.2889	-6.8031	-1.7378	3.4288	0.3150	-0.0108	-2.0685	
17	18.07	7.52	3.3316	-6.9059	-1.4854	2.8611	0.2720	-0.0063	-2.0729	
18	18.06	6.75	3.3903	-7.1660	-1.2522	2.3441	0.2850	0.0011	-2.1137	
19	18.08	5.88	3.4359	-7.1699	-0.9829	1.8400	0.2070	0.0282	-2.0868	
20	18.04	5.06	3.5469	-7.6704	-0.9392	1.4598	0.2260	0.0003	-2.1625	
21	18.02	4.24	3.5516	-7.9379	-0.8396	1.2734	0.2320	-0.0030	-2.2350	
22	18.03	3.47	3.6008	-8.0748	-0.6552	0.9543	0.1860	-0.0004	-2.2425	
23	18.01	2.70	3.6036	-8.1547	-0.4499	0.6909	0.1480	0.0058	-2.2629	
24	18.05	1.92	3.6470	-8.3044	-0.3862	0.5827	0.1230	0.0	-2.2770	
25	18.02	1.14	3.6451	-8.3747	-0.2476	0.5576	0.0840	0.0142	-2.2975	
26	18.02	0.43	3.6609	-8.3829	-0.1551	0.3681	0.0210	0.0098	-2.2898	
27	18.04	-0.35	3.6605	-8.3313	-0.1029	0.2110	-0.0510	0.0091	-2.2760	
28	18.03	-1.14	3.6611	-8.2822	-0.0265	0.1369	-0.0640	0.0128	-2.2622	
29	18.02	-1.98	3.5934	-8.1964	0.1464	0.0303	-0.0910	0.0264	-2.2809	
30	18.03	-2.80	3.5935	-8.0535	0.2462	-0.1687	-0.1280	0.0304	-2.2411	
31	18.01	-3.66	3.5126	-7.9313	0.3417	-0.4585	-0.1430	0.0450	-2.2579	
32	18.02	-4.44	3.4858	-7.7608	0.5324	-0.8304	-0.1800	0.0466	-2.2264	
33	18.01	-5.20	3.4601	-7.5608	0.7274	-1.1873	-0.1950	0.0506	-2.1851	
34	18.05	-5.98	3.3986	-7.3106	0.8799	-1.6908	-0.2060	0.0480	-2.1511	
35	18.04	-6.80	3.4103	-7.2060	1.1439	-2.1215	-0.2360	0.0447	-2.1130	
36	18.06	-7.60	3.3328	-6.9996	1.3627	-2.5627	-0.2450	0.0439	-2.1002	
37	18.07	-8.41	3.2601	-6.6388	1.5515	-3.0920	-0.2720	0.0467	-2.0364	
38	18.09	-9.19	3.2744	-6.3739	1.7080	-3.5700	-0.2800	0.0520	-1.9466	
39	18.08	-10.02	3.2417	-6.3471	2.0112	-4.0676	-0.3020	0.0349	-1.9580	
40	18.11	-10.78	3.1897	-5.8764	2.1277	-4.4566	-0.2840	0.0305	-1.8423	
41	18.12	-11.57	3.1778	-5.7697	2.2676	-4.9324	-0.2510	0.0344	-1.8156	
42	18.10	-12.33	3.1450	-5.5068	2.4597	-5.3013	-0.2490	0.0312	-1.7510	
43	18.12	-13.15	3.1230	-5.5450	2.5655	-5.5084	-0.2050	0.0212	-1.7756	
44	18.10	-14.00	3.1125	-5.4593	2.7061	-5.6184	-0.1900	0.0108	-1.7540	
45	18.14	-14.84	3.1621	-5.4268	2.8583	-5.6974	-0.1580	0.0045	-1.7162	
46	18.13	-15.63	3.1357	-5.3038	2.9887	-5.8910	-0.1050	-0.0196	-1.6914	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 154 0.92 1.7 0.0 B2WOF14 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	18.15	-16.47	3.2504	-5.5054	3.0440	-5.3455	0.0200	0.0201	-1.6938
48	18.15	-17.26	3.2890	-5.4884	3.1438	-5.2442	0.0810	0.0135	-1.6687
49	18.17	-18.16	3.3016	-5.2561	3.2868	-5.3554	0.1340	0.0159	-1.5920
50	18.16	-18.99	3.4012	-5.4875	3.4196	-5.3283	0.2150	0.0241	-1.6134
51	18.17	-19.79	3.4630	-5.5232	3.6260	-5.2684	0.2810	0.0118	-1.5949

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 154 0.92 1.7			0.0	02W0F12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	18.22	19.83	-0.7563	0.0574	-0.2606	-0.0759	0.3446	0.4545	0.0480	-0.0635	0.1045	-0.1383
2	16.19	19.43	-0.7206	0.0563	-0.2648	-0.0782	0.3675	0.4408	0.0484	-0.0606	0.1099	-0.1374
3	18.23	18.70	-0.6757	0.0543	-0.2557	-0.0878	0.3785	0.4423	0.0485	-0.0656	0.1097	-0.1483
4	18.19	17.85	-0.6383	0.0592	-0.2453	-0.0927	0.3843	0.4350	0.0483	-0.0670	0.1110	-0.1540
5	18.19	17.08	-0.6006	0.0587	-0.2362	-0.0977	0.3933	0.4115	0.0476	-0.0709	0.1157	-0.1724
6	18.19	16.24	-0.4908	0.0628	-0.2145	-0.1279	0.4371	0.4178	0.0480	-0.0869	0.1148	-0.2081
7	18.19	15.50	-0.5126	0.0626	-0.1547	-0.1222	0.3798	0.4172	0.0489	-0.0784	0.1173	-0.1880
8	18.15	14.69	-0.4243	0.0621	-0.1767	-0.1463	0.4164	0.4110	0.0488	-0.0864	0.1188	-0.2102
9	18.16	13.88	-0.3420	0.0613	-0.1735	-0.1793	0.5071	0.4039	0.0482	-0.0884	0.1193	-0.2188
10	18.15	13.13	-0.3362	0.0614	-0.1616	-0.1826	0.4804	0.4052	0.0479	-0.0939	0.1182	-0.2318
11	18.13	12.34	-0.2653	0.0547	-0.1410	-0.2252	0.5315	0.4131	0.0480	-0.0894	0.1163	-0.2164
12	18.14	11.57	-0.2062	0.0565	-0.1157	-0.2740	0.5611	0.4209	0.0482	-0.0782	0.1145	-0.1858
13	18.14	10.79	-0.2444	0.0576	-0.1218	-0.2358	0.4485	0.3875	0.0477	-0.0901	0.1232	-0.2326
14	18.11	9.95	-0.2112	0.0576	-0.0867	-0.2729	0.4104	0.4226	0.0478	-0.0797	0.1132	-0.1887
15	18.09	9.12	-0.1408	0.0558	-0.0849	-0.3566	0.6031	0.4452	0.0473	-0.0851	0.1063	-0.1912
16	18.07	8.30	-0.0996	0.0581	-0.0717	-0.5832	0.7198	0.3984	0.0485	-0.0777	0.1218	-0.1950
17	18.07	7.52	-0.0619	0.0621	-0.0779	-1.0039	1.2589	0.4177	0.0484	-0.0791	0.1159	-0.1893
18	18.06	6.75	0.0329	0.0617	-0.0345	-1.8766	-1.0498	0.4184	0.0481	-0.0683	0.1149	-0.1633
19	18.08	5.88	0.0234	0.0700	-0.0612	-2.9931	-2.6155	0.4358	0.0471	-0.0782	0.1080	-0.1795
20	18.04	5.06	0.1116	0.0612	-0.0111	-0.5483	-0.0996	0.3503	0.0465	-0.0401	0.1327	-0.1146
21	18.02	4.24	0.1343	0.0471	0.0248	-0.3510	0.1850	0.3288	0.0450	-0.0290	0.1369	-0.0882
22	18.03	3.47	0.1068	0.0395	0.0174	-0.3698	0.1665	0.3908	0.0450	-0.0303	0.1151	-0.0776
23	18.01	2.70	0.1223	0.0368	0.0132	-0.3013	0.1084	0.3978	0.0456	-0.0292	0.1146	-0.0734
24	18.05	1.92	0.0683	0.0349	0.0058	-0.5109	0.0843	0.4127	0.0458	-0.0308	0.1111	-0.0747
25	18.02	1.14	0.0650	0.0137	0.0022	-0.2115	0.0332	0.3526	0.0455	-0.0290	0.1291	-0.0822
26	18.02	0.43	0.0029	-0.0005	0.0059	-0.1896	2.0229	0.3890	0.0420	-0.0304	0.1079	-0.0782
27	18.04	-0.35	-0.0859	-0.0167	-0.0006	-0.1944	0.0073	0.3646	0.0380	-0.0229	0.1043	-0.0627
28	18.03	-1.14	-0.0884	-0.0323	-0.0003	-0.3653	0.0029	0.3583	0.0370	-0.0244	0.1034	-0.0820
29	18.02	-1.98	-0.0892	-0.0501	0.0103	-0.5616	-0.1152	0.3332	0.0355	-0.0447	0.1065	-0.1342
30	18.03	-2.80	-0.1251	-0.0562	0.0039	-0.4492	-0.0313	0.3565	0.0350	-0.0551	0.0981	-0.1544
31	18.01	-3.66	-0.0895	-0.0684	0.0160	-0.7641	-0.1785	0.3462	0.0343	-0.0658	0.0992	-0.1900
32	18.02	-4.44	-0.0873	-0.0731	0.0233	-0.8378	-0.2670	0.3119	0.0336	-0.0712	0.1077	-0.2283
33	18.01	-5.20	-0.0519	-0.0721	0.0256	-1.3899	-0.4934	0.3687	0.0332	-0.0882	0.0901	-0.2392
34	18.05	-5.98	-0.0114	-0.0714	0.0457	-6.2620	-4.0089	0.3080	0.0312	-0.0938	0.1014	-0.3046
35	18.04	-6.80	0.0083	-0.0683	0.0498	-8.2335	5.9959	0.1736	0.0309	-0.0818	0.1780	-0.4715
36	18.06	-7.60	0.0457	-0.0657	0.0663	-1.4385	1.4514	0.2434	0.0297	-0.0995	0.1220	-0.4088
37	18.07	-8.41	0.0977	-0.0626	0.0681	-0.6406	0.6976	0.2082	0.0289	-0.1033	0.1388	-0.4963
38	18.04	-9.19	0.1497	-0.0647	0.0909	-0.4325	0.6071	0.1945	0.0271	-0.1138	0.1393	-0.5850
39	18.08	-10.02	0.1775	-0.0602	0.0968	-0.3394	0.5456	0.2172	0.0257	-0.1243	0.1185	-0.5724
40	18.11	-10.78	0.2627	-0.0657	0.1256	-0.2501	0.4782	0.1686	0.0226	-0.1397	0.1343	-0.8287
41	18.12	-11.57	0.3655	-0.0688	0.1569	-0.1882	0.4292	0.2035	0.0200	-0.1683	0.0983	-0.8270
42	18.10	-12.33	0.3930	-0.0696	0.1830	-0.1770	0.4655	0.2061	0.0175	-0.1851	0.0851	-0.8982
43	18.12	-13.15	0.4543	-0.0687	0.1821	-0.1512	0.4008	0.1846	0.0157	-0.1823	0.0850	-0.9875
44	18.10	-14.00	0.4961	-0.0688	0.1539	-0.1387	0.3909	0.2239	0.0138	-0.1991	0.0616	-0.8892
45	18.14	-14.84	0.5314	-0.0681	0.2089	-0.1282	0.3930	0.1891	0.0114	-0.2125	0.0603	-1.1237
46	18.13	-15.63	0.5596	-0.0680	0.2078	-0.1216	0.3713	0.1535	0.0120	-0.2127	0.0785	-1.3860

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 154 0.92 1.7				0.0	B2NOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	18.15	-16.47	0.5743	-0.0671	0.2211	-0.1168	0.3849	0.1608	0.0106	-0.2164	0.0659	-1.3459
48	18.15	-17.26	0.6055	-0.0682	0.2405	-0.1126	0.3971	0.1585	0.0101	-0.2324	0.0637	-1.4668
49	18.17	-18.16	0.6686	-0.0689	0.2480	-0.1031	0.3709	0.1109	0.0108	-0.2431	0.0974	-2.1925
50	18.16	-18.99	0.6946	-0.0686	0.2554	-0.0988	0.3678	0.0821	0.0110	-0.2463	0.1340	-3.0005
51	18.17	-19.79	0.7005	-0.0676	0.2681	-0.0965	0.3827	0.0868	0.0109	-0.2616	0.1261	-3.0147

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSIT ICN		
6 154 0.92 1.7			0.0	82WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	18.22	19.83	-0.8588	-0.0228	-0.3262	0.0265	0.3798	0.5549	-0.0569	0.2213	-0.1025	0.3988
2	18.19	19.43	-0.8618	-0.0238	-0.3225	0.0277	0.3742	0.6218	-0.0557	0.2137	-0.0896	0.3437
3	18.23	18.70	-0.9230	-0.0259	-0.3266	0.0281	0.3531	0.5490	-0.0568	0.2242	-0.1035	0.4084
4	18.19	17.85	-0.9438	-0.0426	-0.3187	0.0452	0.3377	0.5992	-0.0603	0.2214	-0.1007	0.3694
5	18.19	17.08	-0.9451	-0.0460	-0.3337	0.0467	0.3531	0.6530	-0.0587	0.2323	-0.0899	0.3557
6	18.19	16.24	-1.1369	-0.0437	-0.3582	0.0385	0.3503	0.6238	-0.0598	0.2272	-0.0958	0.3641
7	18.19	15.50	-1.1400	-0.0441	-0.4175	0.0387	0.3662	0.6290	-0.0579	0.2305	-0.0920	0.3664
8	18.15	14.69	-1.1540	-0.0346	-0.4209	0.0300	0.3648	0.7127	-0.0530	0.2437	-0.0743	0.3419
9	18.16	13.88	-1.0652	-0.0251	-0.4394	0.0236	0.4125	0.7252	-0.0477	0.2535	-0.0658	0.3496
10	18.15	13.13	-1.0322	-0.0128	-0.4436	0.0124	0.4298	0.7320	-0.0397	0.2503	-0.0543	0.3420
11	18.13	12.34	-0.9863	-0.0119	-0.4267	0.0121	0.4327	0.7811	-0.0335	0.2571	-0.0429	0.3291
12	18.14	11.57	-0.9036	-0.0126	-0.4077	0.0140	0.4512	0.8578	-0.0258	0.2670	-0.0301	0.3113
13	18.14	10.79	-0.8707	-0.0108	-0.3760	0.0124	0.4318	0.8263	-0.0214	0.2785	-0.0259	0.3370
14	18.11	9.95	-0.7975	-0.0129	-0.3549	0.0162	0.4451	0.8635	-0.0180	0.2843	-0.0209	0.3293
15	18.09	9.12	-0.6666	-0.0147	-0.3371	0.0221	0.5057	0.8969	-0.0127	0.2910	-0.0142	0.3244
16	18.07	8.30	-0.6123	-0.0155	-0.3040	0.0254	0.4965	0.9108	-0.0086	0.3025	-0.0095	0.3321
17	18.07	7.52	-0.5557	-0.0142	-0.2692	0.0255	0.4843	0.9258	-0.0094	0.3001	-0.0102	0.3241
18	18.06	6.75	-0.4583	-0.0145	-0.2480	0.0317	0.5411	0.9610	-0.0049	0.3022	-0.0051	0.3145
19	18.08	5.88	-0.3633	-0.0144	-0.2183	0.0398	0.6007	0.9402	-0.0064	0.3052	-0.0069	0.3246
20	18.04	5.06	-0.3292	-0.0143	-0.1851	0.0434	0.5622	0.9649	0.0015	0.3170	0.0016	0.3286
21	18.02	4.24	-0.2497	-0.0120	-0.1588	0.0480	0.6360	1.0591	0.0075	0.3218	0.0071	0.3039
22	18.03	3.47	-0.1701	-0.0103	-0.1365	0.0608	0.8024	1.0347	0.0068	0.3380	0.0066	0.3266
23	18.01	2.70	-0.0976	-0.0082	-0.1043	0.0840	1.0689	1.0649	0.0079	0.3394	0.0075	0.3188
24	18.05	1.92	-0.0458	-0.0052	-0.0779	0.1135	1.7022	1.0825	0.0088	0.3434	0.0081	0.3172
25	18.02	1.14	0.0230	-0.0042	-0.0560	-0.1847	-2.4363	1.0967	0.0132	0.3536	0.0121	0.3225
26	18.02	0.43	0.0569	-0.0036	-0.0252	-0.0641	-0.4436	1.0814	0.0269	0.3377	0.0249	0.3123
27	18.04	-0.35	0.1018	-0.0035	0.0056	-0.0349	0.0552	1.1091	0.0314	0.3302	0.0283	0.2977
28	18.03	-1.14	0.1285	-0.0023	0.0356	-0.0183	0.2725	1.1246	0.0287	0.3337	0.0255	0.2968
29	18.02	-1.98	0.1943	-0.0000	0.0625	-0.0003	0.3240	1.1423	0.0240	0.3260	0.0254	0.2854
30	18.03	-2.80	0.2830	0.0021	0.0850	0.0076	0.3004	1.1136	0.0320	0.3222	0.0288	0.2893
31	18.01	-3.66	0.3278	0.0062	0.1204	0.0191	0.3689	1.0616	0.0336	0.3135	0.0311	0.2899
32	18.02	-4.44	0.3993	0.0087	0.1452	0.0219	0.3635	1.0588	0.0354	0.3117	0.0335	0.2944
33	18.01	-5.20	0.4554	0.0102	0.1734	0.0225	0.3809	1.0585	0.0356	0.3086	0.0336	0.2916
34	18.05	-5.98	0.5471	0.0116	0.2065	0.0213	0.3774	1.0595	0.0358	0.3003	0.0338	0.2834
35	18.04	-6.80	0.6299	0.0132	0.2354	0.0210	0.3737	1.0386	0.0359	0.2966	0.0346	0.2856
36	18.06	-7.60	0.6983	0.0135	0.2610	0.0194	0.3737	1.0260	0.0363	0.2980	0.0354	0.2904
37	18.07	-8.41	0.8031	0.0162	0.2860	0.0202	0.3561	1.0325	0.0370	0.2953	0.0359	0.2860
38	18.09	-9.19	0.8535	0.0154	0.3118	0.0180	0.3653	1.0142	0.0367	0.2804	0.0362	0.2764
39	18.08	-10.02	0.9504	0.0158	0.3353	0.0167	0.3528	1.0563	0.0367	0.2780	0.0348	0.2632
40	18.11	-10.78	1.0057	0.0159	0.3640	0.0159	0.3619	0.9814	0.0357	0.2725	0.0364	0.2777
41	18.12	-11.57	1.0741	0.0141	0.3876	0.0132	0.3609	0.9490	0.0348	0.2697	0.0367	0.2842
42	18.10	-12.33	1.1165	0.0159	0.4043	0.0143	0.3621	0.9512	0.0357	0.2587	0.0376	0.2719
43	18.12	-13.15	1.1701	0.0268	0.4037	0.0229	0.3450	0.9731	0.0374	0.2719	0.0384	0.2855
44	18.10	-14.00	1.2109	0.0343	0.4036	0.0283	0.3328	0.9723	0.0380	0.2784	0.0391	0.2863
45	18.14	-14.84	1.2189	0.0450	0.4025	0.0369	0.3303	0.9812	0.0370	0.2721	0.0377	0.2773
46	18.13	-15.63	1.2092	0.0464	0.3916	0.0384	0.3239	1.0171	0.0399	0.2894	0.0393	0.2846

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6													
6 154 0.92 1.7 0.0 B2HOF12 0.0 0 0 0 0 0 FIXED													
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CM4	CH4	XCPF4	YCPF4	
47	18.15	-16.47	1.0321	0.0496	0.3163	0.0480	0.3065	1.1111	0.0391	0.2963	0.0352	0.2667	
48	18.15	-17.26	1.0288	0.0479	0.2595	0.0466	0.2911	1.0926	0.0393	0.2893	0.0360	0.2648	
49	18.17	-18.16	0.9690	0.0310	0.2587	0.0320	0.3082	1.0360	0.0399	0.3023	0.0385	0.2918	
50	18.16	-18.99	0.9525	0.0224	0.2798	0.0236	0.2937	1.1014	0.0411	0.3043	0.0373	0.2763	
51	18.17	-19.79	0.8819	0.0207	0.2870	0.0235	0.3254	1.1507	0.0397	0.3246	0.0345	0.2821	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	155	0.94	1.7	U.U	H2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	21.35	19.70	4.0030	-5.1772	-4.0787	5.1722	0.0700	-0.0769	-1.2933		
2	21.36	19.67	4.0164	-5.2550	-3.5529	5.2451	0.0620	-0.0805	-1.3084		
3	21.34	19.72	4.0135	-5.3699	-3.8879	5.1961	0.0710	-0.0913	-1.3380		
4	21.34	19.72	4.0200	-5.3290	-3.9230	5.1262	0.0610	-0.0586	-1.3256		
5	21.37	18.87	3.9862	-5.2267	-3.9410	5.1354	0.0800	-0.0788	-1.3112		
6	21.34	18.04	3.9328	-5.3359	-3.7674	5.0334	0.1360	-0.0593	-1.3568		
7	21.34	17.25	4.0012	-5.4557	-3.6055	4.9967	0.1900	-0.0523	-1.3635		
8	21.31	16.44	3.9125	-5.5185	-3.6058	5.5291	0.2940	-0.0543	-1.4105		
9	21.30	15.62	3.8180	-5.5112	-3.4565	5.7220	0.3630	-0.0604	-1.4435		
10	21.28	14.85	3.7589	-5.7364	-3.3676	5.8454	0.4109	-0.0616	-1.5201		
11	21.28	14.04	3.7948	-5.7507	-3.2358	5.8359	0.4439	-0.0456	-1.5154		
12	21.27	13.25	3.6877	-5.6917	-3.0268	5.7743	0.4889	-0.0110	-1.5434		
13	21.26	12.51	3.6724	-5.8793	-2.8230	5.4160	0.4609	-0.0340	-1.6009		
14	21.25	11.74	3.6783	-5.9555	-2.5928	5.0547	0.4519	-0.0071	-1.6191		
15	21.27	10.95	3.6178	-5.9288	-2.3945	4.8731	0.4849	0.0088	-1.6388		
16	21.24	10.06	3.6373	-6.1161	-2.2212	4.3835	0.4659	0.0060	-1.6615		
17	21.22	9.29	3.6185	-6.2898	-2.0252	3.9412	0.4459	0.0214	-1.7382		
18	21.20	8.43	3.6769	-6.4615	-1.8519	3.7904	0.4829	0.0276	-1.7573		
19	21.19	7.61	3.6732	-6.5543	-1.7052	3.3441	0.4939	0.0261	-1.7844		
20	21.20	6.80	3.7723	-6.6550	-1.4979	2.9050	0.4309	0.0332	-1.7642		
21	21.21	5.99	3.8893	-7.0928	-1.2297	2.3426	0.4349	0.0382	-1.8237		
22	21.18	5.04	3.9849	-7.6750	-1.1686	1.9061	0.4109	-0.0071	-1.9262		
23	21.16	4.34	3.8102	-7.2870	-0.9091	1.7836	0.3630	0.0314	-1.9125		
24	21.18	3.49	3.8830	-7.4569	-0.6911	1.3665	0.3190	0.0336	-1.9204		
25	21.15	2.79	3.9714	-7.8366	-0.4786	1.0840	0.2840	0.0127	-1.9733		
26	21.17	1.95	4.0367	-8.0240	-0.2588	0.5952	0.2290	-0.0011	-1.9878		
27	21.13	1.17	4.2457	-8.8907	-0.2384	0.3657	0.1210	-0.0502	-2.0940		
28	21.12	0.40	4.2473	-8.9839	-0.0836	0.2040	0.0100	-0.0451	-2.1152		
29	21.12	-0.32	4.2133	-8.8943	0.0586	-0.0490	-0.0500	-0.0430	-2.1110		
30	21.14	-1.20	4.1642	-8.7104	0.1395	-0.1773	-0.1700	-0.0270	-2.0918		
31	21.12	-1.99	4.0928	-8.4275	0.3023	-0.3342	-0.2580	-0.0055	-2.0591		
32	21.14	-2.87	3.9657	-7.9156	0.4707	-0.8430	-0.3420	0.0232	-1.9960		
33	21.17	-3.69	3.8462	-7.4402	0.5902	-1.2033	-0.3660	0.0405	-1.9334		
34	21.16	-4.49	3.8919	-7.4094	0.7925	-1.4445	-0.4039	0.0494	-1.9038		
35	21.18	-5.28	3.7718	-7.0183	0.9318	-1.8484	-0.4249	0.0480	-1.8607		
36	21.18	-6.05	3.7600	-6.9758	1.1889	-2.3634	-0.4609	0.0381	-1.8553		
37	21.18	-6.90	3.7322	-6.6529	1.4048	-2.8676	-0.4489	0.0461	-1.7826		
38	21.18	-7.69	3.6678	-6.4608	1.5683	-3.2545	-0.4619	0.0285	-1.7615		
39	21.20	-8.50	3.6364	-6.3728	1.8119	-3.6235	-0.4579	0.0196	-1.7525		
40	21.19	-9.30	3.6474	-6.3042	1.9188	-3.9212	-0.4389	0.0028	-1.7284		
41	21.22	-10.12	3.6850	-6.2289	2.1007	-4.2768	-0.4309	-0.0036	-1.6903		
42	21.21	-10.88	3.6706	-6.0587	2.3063	-4.7436	-0.4429	-0.0290	-1.6506		
43	21.21	-11.67	3.6960	-6.0963	2.4854	-4.9983	-0.4289	-0.0301	-1.6494		
44	21.19	-12.42	3.6831	-6.0252	2.6765	-5.2430	-0.4379	-0.0331	-1.6359		
45	21.22	-13.26	3.6874	-5.7833	2.8684	-5.4796	-0.4209	-0.0367	-1.5684		
46	21.22	-14.10	3.6950	-5.8589	2.9819	-5.4605	-0.3700	-0.0547	-1.5856		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		155	0.92	1.7	0.0	82W0F12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP		
47	21.21	-14.95	3.7438	-5.8273	3.1127	-5.4666	-0.3230	-0.0711	-1.5565		
48	21.25	-15.76	3.7737	-5.5522	3.2528	-5.4658	-0.2620	-0.0651	-1.4713		
49	21.26	-16.63	3.9204	-5.7285	3.2411	-4.7865	-0.1270	-0.0551	-1.4612		
50	21.28	-17.45	3.9487	-5.7711	3.2853	-4.7064	-0.0830	-0.0527	-1.4615		
51	21.29	-18.37	4.0186	-5.6130	3.5215	-4.8362	0.0070	-0.0739	-1.3968		
52	21.29	-19.18	4.0175	-5.5175	3.6692	-4.8669	0.0500	-0.0653	-1.3734		
53	21.34	-19.95	4.0756	-5.3178	3.9479	-4.8381	0.0960	-0.0963	-1.3048		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PH1	CONF	L	DEL1	OEL2	OEL3	OEL4	TRANSITION
6			155		0.92 1.7		0.0 B2WOF12		O.C	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2		
1	21.35	19.70	-0.5316	0.0612	-0.2137	-0.1151	0.4021	0.4467	0.0357	-0.0902	0.0800	-0.2019		
2	21.36	19.67	-0.5633	0.0614	-0.2143	-0.1091	0.3804	0.4457	0.0357	-0.0857	0.0801	-0.1924		
3	21.34	19.72	-0.5969	0.0582	-0.2299	-0.0976	0.3851	0.4586	0.0357	-0.0859	0.0778	-0.1874		
4	21.34	19.72	-0.5298	0.0612	-0.2207	-0.1155	0.4166	0.4451	0.0357	-0.0848	0.0803	-0.1906		
5	21.37	18.87	-0.5004	0.0609	-0.2126	-0.1218	0.4249	0.4359	0.0355	-0.0887	0.0815	-0.2035		
6	21.34	18.04	-0.5023	0.0603	-0.2011	-0.1201	0.4003	0.4448	0.0355	-0.0954	0.0798	-0.2145		
7	21.34	17.25	-0.4451	0.0600	-0.1900	-0.1347	0.4269	0.4283	0.0355	-0.0973	0.0830	-0.2272		
8	21.31	16.44	-0.3855	0.0606	-0.1888	-0.1572	0.4899	0.4034	0.0358	-0.1019	0.0887	-0.2527		
9	21.30	15.62	-0.3545	0.0573	-0.1686	-0.1616	0.4756	0.3575	0.0358	-0.1019	0.1001	-0.2851		
10	21.28	14.85	-0.3443	0.0552	-0.1714	-0.1401	0.4346	0.3598	0.0360	-0.1099	0.1001	-0.3053		
11	21.28	14.04	-0.3693	0.0565	-0.1701	-0.1531	0.4604	0.3514	0.0359	-0.1171	0.1021	-0.3331		
12	21.27	13.25	-0.3140	0.0573	-0.1485	-0.1826	0.4730	0.3084	0.0361	-0.1280	0.1170	-0.4149		
13	21.26	12.51	-0.3324	0.0571	-0.1531	-0.1717	0.4604	0.3442	0.0365	-0.1211	0.1060	-0.3517		
14	21.25	11.74	-0.3243	0.0608	-0.1491	-0.1874	0.4596	0.3304	0.0362	-0.1278	0.1097	-0.3869		
15	21.27	10.95	-0.2420	0.0550	-0.1203	-0.2272	0.4773	0.2770	0.0361	-0.1350	0.1304	-0.4874		
16	21.24	10.06	-0.2329	0.0604	-0.1151	-0.2595	0.5114	0.2926	0.0362	-0.1398	0.1238	-0.4779		
17	21.22	9.29	-0.1822	0.0612	-0.1164	-0.3361	0.6389	0.2464	0.0366	-0.1421	0.1485	-0.5767		
18	21.20	8.43	-0.1402	0.0576	-0.0589	-0.4111	0.4202	0.2421	0.0373	-0.1424	0.1540	-0.5883		
19	21.19	7.61	-0.0655	0.0625	-0.0514	-0.8591	0.7404	0.2121	0.0373	-0.1478	0.1761	-0.6970		
20	21.20	6.80	-0.0859	0.0657	-0.0645	-0.7647	0.7511	0.2161	0.0372	-0.1535	0.1723	-0.7103		
21	21.21	5.99	-0.0366	0.0601	-0.0349	-1.6418	-0.9537	0.2752	0.0379	-0.1423	0.1378	-0.5171		
22	21.18	5.04	-0.1425	0.0440	-0.0127	-0.3591	0.0890	0.3637	0.0430	-0.1118	0.1182	-0.3072		
23	21.16	4.34	-0.0176	0.0522	-0.0252	-2.9654	1.4298	0.2953	0.0391	-0.1436	0.1325	-0.4864		
24	21.18	3.44	-0.0054	0.0641	-0.0378	-11.8775	6.9999	0.2750	0.0386	-0.1479	0.1405	-0.5377		
25	21.15	2.79	-0.0017	0.0625	-0.0381	-36.7581	22.3920	0.3037	0.0370	-0.1399	0.1285	-0.4607		
26	21.17	1.95	0.0363	0.0571	-0.0363	1.5741	-1.0301	0.3379	0.0414	-0.1199	0.1225	-0.3547		
27	21.13	1.17	0.0685	0.0153	0.0079	0.2240	0.1157	0.4452	0.0460	-0.0445	0.1034	-0.1000		
28	21.12	0.40	-0.0408	0.0064	-0.0085	-0.1568	0.2082	0.4795	0.0461	-0.0352	0.0961	-0.0734		
29	21.12	-0.32	-0.0279	0.0115	-0.0315	-0.4139	1.1289	0.4597	0.0442	-0.0198	0.0961	-0.0430		
30	21.14	-1.20	-0.0747	-0.0196	-0.0198	0.2623	0.2649	0.5453	0.0302	-0.0118	0.0700	-0.0216		
31	21.12	-1.99	-0.1576	-0.0304	-0.0225	0.1929	0.1429	0.5135	0.0364	-0.0144	0.0709	-0.0280		
32	21.14	-2.87	-0.1359	-0.0363	-0.0224	0.2674	0.1647	0.4748	0.0351	-0.0161	0.0740	-0.0338		
33	21.17	-3.69	-0.0997	-0.0508	-0.0160	0.5094	0.1607	0.4424	0.0339	-0.0267	0.0767	-0.0605		
34	21.16	-4.49	-0.1502	-0.0658	0.0076	0.4383	-0.0509	0.4858	0.0326	-0.0477	0.0672	-0.0981		
35	21.18	-5.28	-0.1004	-0.0663	0.0205	0.6602	-0.2046	0.4753	0.0312	-0.0548	0.0657	-0.1152		
36	21.18	-6.05	-0.0639	-0.0621	0.0164	0.9724	-0.2568	0.4711	0.0308	-0.0629	0.0652	-0.1330		
37	21.18	-6.90	0.0043	-0.0675	0.0498	-15.7065	11.5090	0.4274	0.0206	-0.0730	0.0670	-0.1709		
38	21.18	-7.69	0.0552	-0.0641	0.0520	-1.1610	0.9419	0.4142	0.0273	-0.0700	0.0660	-0.1884		
39	21.20	-8.50	0.1022	-0.0644	0.0753	-0.6105	0.7373	0.3760	0.0254	-0.0869	0.0677	-0.2310		
40	21.19	-9.30	0.1399	-0.0630	0.0853	-0.4506	0.6098	0.3987	0.0242	-0.0999	0.0607	-0.2505		
41	21.22	-10.12	0.1608	-0.0657	0.1087	-0.4085	0.6759	0.3894	0.0226	-0.1153	0.0581	-0.2961		
42	21.21	-10.88	0.1673	-0.0629	0.1189	-0.3759	0.7110	0.3806	0.0213	-0.1229	0.0559	-0.3229		
43	21.21	-11.67	0.2153	-0.0629	0.1201	-0.2923	0.5580	0.3650	0.0195	-0.1345	0.0534	-0.3685		
44	21.19	-12.42	0.2734	-0.0606	0.1299	-0.2216	0.4751	0.3533	0.0173	-0.1424	0.0489	-0.4031		
45	21.22	-13.26	0.2909	-0.0643	0.1450	-0.2209	0.4985	0.3480	0.0149	-0.1534	0.0428	-0.4407		
46	21.22	-14.10	0.3305	-0.0655	0.1553	-0.1982	0.4699	0.3495	0.0135	-0.1656	0.0386	-0.4737		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			155	0.92	1.7	0.0	82WUF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CBI2	XCPF2	YCPF2	
47	21.21	-14.95	0.3827	-0.0639	0.1609	-0.1669	0.4205	0.3288	0.0128	-0.1788	0.0389	-0.5436	
48	21.25	-15.76	0.4206	-0.0648	0.1835	-0.1540	0.4361	0.2894	0.0115	-0.1858	0.0397	-0.6419	
49	21.26	-16.63	0.4407	-0.0658	0.1963	-0.1494	0.4455	0.2811	0.0112	-0.1841	0.0398	-0.6547	
50	21.28	-17.45	0.4828	-0.0652	0.2014	-0.1351	0.4171	0.2457	0.0102	-0.1921	0.0417	-0.7820	
51	21.29	-18.37	0.5372	-0.0677	0.2206	-0.1260	0.4106	0.2040	0.0109	-0.2100	0.0534	-1.0295	
52	21.29	-19.18	0.5893	-0.0673	0.2236	-0.1142	0.3794	0.1562	0.0108	-0.2131	0.0691	-1.3646	
53	21.34	-19.95	0.6108	-0.0671	0.2392	-0.1098	0.3917	0.1479	0.0108	-0.2247	0.0733	-1.5194	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 155 0.92 1.7				0.0	82MOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YC PF3	CNF4	CH4	CB4	XC PF4	YC PF4
1	21.35	19.70	-0.9045	-0.0233	-0.3467	0.0258	0.3833	0.6333	-0.0589	0.2414	-0.0931	0.3812
2	21.36	19.67	-0.9199	-0.0236	-0.3351	0.0256	0.3686	0.6540	-0.0584	0.2390	-0.0893	0.3655
3	21.34	19.72	-0.9584	-0.0236	-0.3418	0.0247	0.3566	0.7340	-0.0556	0.2444	-0.0758	0.3329
4	21.34	19.72	-0.9071	-0.0219	-0.3389	0.0242	0.3736	0.6371	-0.0595	0.2408	-0.0934	0.3779
5	21.37	18.87	-0.9179	-0.0237	-0.3365	0.0258	0.3665	0.6788	-0.0585	0.2348	-0.0862	0.3459
6	21.34	18.04	-0.9524	-0.0367	-0.3434	0.0385	0.3605	0.6754	-0.0598	0.2514	-0.0885	0.3723
7	21.34	17.25	-0.9871	-0.0457	-0.3476	0.0463	0.3522	0.7228	-0.0593	0.2542	-0.0820	0.3518
8	21.31	16.44	-1.1119	-0.0461	-0.4100	0.0411	0.3655	0.6906	-0.0613	0.2636	-0.0888	0.3817
9	21.30	15.62	-1.1286	-0.0467	-0.4271	0.0414	0.3784	0.7591	-0.0571	0.2660	-0.0753	0.3505
10	21.28	14.85	-1.1316	-0.0384	-0.4415	0.0340	0.3901	0.8341	-0.0497	0.2866	-0.0596	0.3436
11	21.28	14.04	-1.1137	-0.0239	-0.4516	0.0215	0.4055	0.8538	-0.0461	0.2901	-0.0540	0.3398
12	21.27	13.25	-1.0866	-0.0146	-0.4526	0.0134	0.4165	0.8310	-0.0420	0.2953	-0.0505	0.3554
13	21.26	12.51	-1.0161	-0.0145	-0.4310	0.0143	0.4241	0.9256	-0.0288	0.3018	-0.0312	0.3261
14	21.25	11.74	-0.9646	-0.0141	-0.4023	0.0147	0.4171	0.9268	-0.0273	0.3083	-0.0294	0.3327
15	21.27	10.95	-0.8710	-0.0169	-0.3854	0.0194	0.4425	1.0161	-0.0200	0.3082	-0.0197	0.3033
16	21.24	10.06	-0.7929	-0.0171	-0.3576	0.0216	0.4510	0.9881	-0.0139	0.3169	-0.0201	0.3207
17	21.22	9.29	-0.6916	-0.0178	-0.3325	0.0257	0.4808	0.9593	-0.0172	0.3259	-0.0172	0.3261
18	21.20	8.43	-0.6684	-0.0182	-0.3096	0.0272	0.4632	1.0274	-0.0119	0.3393	-0.0116	0.3363
19	21.19	7.61	-0.5542	-0.0172	-0.2601	0.0311	0.5055	1.0382	-0.0116	0.3325	-0.0112	0.3203
20	21.20	6.80	-0.4748	-0.0163	-0.2495	0.0344	0.5255	1.0571	-0.0114	0.3297	-0.0108	0.3119
21	21.21	5.99	-0.4333	-0.0167	-0.2141	0.0385	0.4940	1.0662	-0.0077	0.3440	-0.0071	0.3167
22	21.18	5.04	-0.3417	-0.0164	-0.1898	0.0480	0.5553	1.1162	0.0010	0.3558	0.0009	0.3188
23	21.16	4.34	-0.2817	-0.0147	-0.1585	0.0523	0.5625	1.1046	-0.0034	0.3601	-0.0031	0.3260
24	21.18	3.49	-0.1689	-0.0099	-0.1356	0.0589	0.8027	1.1421	-0.0020	0.3580	-0.0018	0.3134
25	21.15	2.79	-0.1066	-0.0080	-0.1070	0.0750	1.0039	1.1516	0.0007	0.3626	0.0007	0.3149
26	21.17	1.95	-0.0625	-0.0063	-0.0751	0.1008	1.2020	1.1921	0.0018	0.3720	0.0016	0.3121
27	21.13	1.17	-0.0326	-0.0051	-0.0441	0.1579	1.3516	1.1968	0.0239	0.3548	0.0200	0.2965
28	21.12	0.40	0.0646	-0.0046	-0.0116	-0.0720	-0.1792	1.1807	0.0243	0.3535	0.0206	0.2994
29	21.12	-0.32	0.1331	-0.0029	0.0027	-0.0222	0.0199	1.2024	0.0288	0.3383	0.0240	0.2813
30	21.14	-1.20	0.1620	-0.0010	0.0355	-0.0065	0.2190	1.0156	0.0257	0.3022	0.0253	0.2976
31	21.12	-1.99	0.2110	0.0016	0.0703	0.0078	0.3332	0.9892	0.0238	0.2812	0.0241	0.2843
32	21.14	-2.87	0.3230	0.0050	0.0992	0.0156	0.3072	0.8957	0.0223	0.2649	0.0249	0.2957
33	21.17	-3.69	0.3519	0.0084	0.1305	0.0240	0.3707	0.8503	0.0177	0.2450	0.0209	0.2881
34	21.16	-4.49	0.4508	0.0117	0.1575	0.0259	0.3494	0.8521	0.0123	0.2310	0.0145	0.2710
35	21.18	-5.28	0.5127	0.0135	0.1848	0.0263	0.3605	0.7436	0.0109	0.2238	0.0147	0.3009
36	21.18	-6.05	0.5933	0.0150	0.2178	0.0253	0.3671	0.7458	0.0113	0.2276	0.0152	0.3052
37	21.18	-6.90	0.6288	0.0155	0.2522	0.0246	0.4011	0.7504	0.0102	0.2218	0.0136	0.2956
38	21.18	-7.69	0.7098	0.0173	0.2707	0.0245	0.3948	0.7319	0.0109	0.2217	0.0149	0.3111
39	21.20	-8.50	0.7978	0.0182	0.3071	0.0228	0.3850	0.7649	0.0101	0.2254	0.0132	0.2947
40	21.19	-9.30	0.8673	0.0197	0.3268	0.0227	0.3768	0.8113	0.0089	0.2375	0.0110	0.2928
41	21.22	-10.12	0.9874	0.0190	0.3488	0.0193	0.3533	0.8294	0.0094	0.2448	0.0114	0.2951
42	21.21	-10.88	1.0910	0.0194	0.3692	0.0178	0.3384	0.8794	0.0082	0.2375	0.0093	0.2700
43	21.21	-11.67	1.1283	0.0197	0.3955	0.0175	0.3505	0.8542	0.0094	0.2529	0.0110	0.2960
44	21.19	-12.42	1.1958	0.0212	0.4133	0.0177	0.3457	0.8897	0.0084	0.2564	0.0094	0.2882
45	21.22	-13.26	1.2345	0.0290	0.4184	0.0235	0.3390	0.9015	0.0087	0.2518	0.0096	0.2793
46	21.22	-14.10	1.2046	0.0404	0.4234	0.0336	0.3515	0.9351	0.0083	0.2682	0.0089	0.2868

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 155 0.92 1.7 0.0 82WUF12 0.0 0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	21.21	-14.95	1.2840	0.0505	0.3529	0.0394	0.3060	0.9561	0.0075	0.2775	0.0078	0.2902
48	21.25	-15.76	1.2494	0.0480	0.3530	0.0384	0.3146	0.9509	0.0075	0.2792	0.0079	0.2936
49	21.26	-16.63	1.0731	0.0496	0.3201	0.0462	0.2983	0.9752	0.0070	0.2863	0.0072	0.2935
50	21.28	-17.45	1.0614	0.0482	0.3137	0.0454	0.2955	1.0208	0.0065	0.2908	0.0064	0.2848
51	21.29	-18.37	0.9751	0.0259	0.3176	0.0266	0.3257	1.0235	0.0069	0.2956	0.0068	0.2888
52	21.29	-19.18	0.9677	0.0213	0.3088	0.0220	0.3191	1.0496	0.0066	0.2974	0.0063	0.2833
53	21.34	-19.95	1.0013	0.0195	0.3022	0.0195	0.3018	1.0479	0.0072	0.3048	0.0069	0.2909

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	R X 10 ⁻⁶	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	156	0.97	1.7	0.0	82W0F12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	0.0	19.98	0.1390	-0.1326	-4.0798	8.7523	-0.0050	0.0838	-0.9540	
2	0.02	19.60	0.1259	-0.0932	-4.1094	8.7227	-0.0070	0.0865	-0.7407	
3	0.01	18.89	0.1391	-0.1857	-3.9189	8.5930	-0.0160	0.0831	-1.3353	
4	-0.01	18.08	0.1131	-0.1243	-3.8410	8.5130	-0.0270	0.0818	-1.0994	
5	0.0	17.28	0.0487	0.0708	-3.7029	8.2997	-0.0150	0.0920	1.4542	
6	0.01	16.46	0.0029	0.2439	-3.4664	7.9726	-0.0030	0.0865	84.1172	
7	0.01	15.70	-0.0040	0.2256	-3.2677	7.6223	-0.0010	0.0857	-56.4001	
8	0.02	14.94	0.0264	0.1520	-3.0476	7.2572	0.0010	0.0460	5.7591	
9	0.01	14.15	0.0050	0.1260	-2.8681	6.9180	-0.0130	0.1143	25.2000	
10	0.0	13.34	-0.0238	0.1373	-2.6753	6.5481	-0.0110	0.1299	-5.7697	
11	0.01	12.64	-0.0203	0.1924	-2.5247	6.1862	0.0030	0.1214	-9.4788	
12	-0.01	11.83	-0.0024	0.1583	-2.3361	5.7692	0.0040	0.1289	-65.9833	
13	0.01	11.05	-0.0141	0.1557	-2.2336	5.4917	0.0100	0.1253	-11.0454	
14	-0.01	10.23	-0.0060	0.0894	-2.0045	5.0971	0.0070	0.1388	-14.5000	
15	-0.01	9.43	-0.0050	0.0880	-1.8188	4.7550	0.0070	0.1394	-17.6000	
16	0.01	8.59	-0.0040	0.0786	-1.6826	4.3224	0.0130	0.1461	-19.6500	
17	0.0	7.81	0.0036	0.0170	-1.4931	3.8691	0.0120	0.1430	4.7111	
18	0.0	7.02	0.0085	-0.0029	-1.3581	3.4772	0.0170	0.1391	-0.3412	
19	-0.01	6.30	0.0121	0.0101	-1.1696	3.0723	0.0120	0.1400	0.6314	
20	0.0	5.39	0.0252	-0.0343	-1.0013	2.6056	0.0150	0.1348	-1.3603	
21	0.0	4.62	0.0171	-0.0309	-0.8468	2.2414	0.0180	0.1399	-1.8094	
22	-0.01	3.81	0.0103	-0.0514	-0.6867	1.8263	0.0180	0.1431	-4.9922	
23	0.0	3.06	0.0232	-0.0555	-0.5946	1.4814	0.0090	0.1474	-2.3914	
24	0.0	2.27	0.0247	-0.0576	-0.4346	1.0984	0.0120	0.1537	-2.3312	
25	-0.01	1.54	0.0451	-0.0741	-0.2873	0.7171	0.0120	0.1594	-1.6439	
26	-0.01	0.76	0.0350	-0.0590	-0.1282	0.3424	0.0110	0.1650	-1.6857	
27	0.0	0.02	0.0275	-0.0365	-0.0231	0.0963	0.0110	0.1661	-1.3273	
28	0.0	-0.80	0.0170	-0.0418	0.1025	-0.1915	0.0140	0.1598	-2.4588	
29	0.0	-1.58	0.0386	-0.0790	0.2185	-0.4568	0.0110	0.1642	-2.0477	
30	0.0	-2.34	0.0327	-0.0508	0.3971	-0.8800	0.0110	0.1665	-1.5529	
31	0.0	-3.21	0.0415	-0.0881	0.4400	-1.2070	0.0110	0.1736	-2.1229	
32	0.0	-4.03	0.0208	-0.0761	0.6615	-1.6150	0.0090	0.1923	-3.6596	
33	0.0	-4.77	0.0429	-0.0511	0.8064	-2.0518	0.0100	0.2176	-1.1902	
34	0.0	-5.58	0.0527	-0.1088	0.9337	-2.3890	0.0140	0.2322	-2.0641	
35	0.0	-6.34	0.0408	-0.0821	1.0795	-2.7401	0.0130	0.2335	-2.0127	
36	-0.01	-7.13	0.0368	-0.0605	1.2523	-3.2051	0.0110	0.2438	-1.6446	
37	-0.01	-7.96	0.0512	-0.0897	1.4057	-3.5828	0.0100	0.2317	-1.7516	
38	0.0	-8.71	0.0350	-0.0640	1.5995	-4.0101	0.0090	0.2045	-1.6286	
39	0.0	-9.54	0.0359	-0.1082	1.7538	-4.3440	0.0120	0.1754	-3.0156	
40	0.0	-10.30	0.0607	-0.1530	1.8905	-4.7829	0.0090	0.1649	-2.5203	
41	0.0	-11.08	0.0397	-0.0866	2.0980	-5.2209	0.0100	0.1306	-2.1809	
42	0.0	-11.83	0.0161	-0.0615	2.2573	-5.6079	0.0030	0.1308	-3.8224	
43	0.0	-12.65	0.0294	-0.1231	2.4202	-6.0119	-0.0040	0.1174	-4.1891	
44	0.0	-13.39	0.0005	-0.0517	2.6347	-6.4262	-0.0150	0.1209	-103.4000	
45	0.0	-14.24	0.0012	-0.0667	2.8242	-6.8065	-0.0260	0.1304	-55.5667	
46	0.0	-15.09	0.0103	-0.0794	2.9824	-7.0057	-0.0220	0.1297	-7.7107	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6	156	0.97	1.7	0.0	82	0.0	0.0	0	0	0
				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4 TRANSITION
				0.0	82	0.0	0	0	0	0
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	0.0	-15.89	0.0288	-0.1073	3.1593	-7.3826	-0.0230	0.1454	-3.7264	
48	0.0	-16.69	0.0094	-0.0712	3.3676	-7.6512	-0.0180	0.1333	-7.5702	
49	-0.01	-17.54	-0.0136	-0.0620	3.5817	-8.0420	-0.0170	0.1281	4.5559	
50	-0.01	-18.43	-0.0017	-0.0656	3.6991	-8.2934	-0.0090	0.1320	38.6000	
51	0.0	-19.27	0.0565	-0.1021	3.9369	-8.5852	-0.0020	0.1342	-1.8071	
52	-0.01	-20.02	0.0502	-0.1453	4.1090	-8.5992	0.0070	0.1210	-2.8940	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 156 0.97 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	0.0	19.98	-1.2422	-0.0174	-0.3574	0.0140	0.2877	-0.4541	0.0304	-0.3235	-0.0670	0.7123
2	0.02	19.60	-1.2731	-0.0162	-0.3538	0.0128	0.2779	-0.4323	0.0308	-0.3271	-0.0712	0.7567
3	0.01	18.89	-1.2467	-0.0145	-0.3589	0.0117	0.2879	-0.4687	0.0308	-0.3261	-0.0657	0.6956
4	-0.01	18.08	-1.2591	-0.0096	-0.3574	0.0076	0.2838	-0.4701	0.0304	-0.3221	-0.0646	0.6852
5	0.0	17.28	-1.2030	-0.0091	-0.3527	0.0076	0.2932	-0.4689	0.0306	-0.3242	-0.0652	0.6914
6	0.01	16.46	-1.1722	-0.0081	-0.3347	0.0070	0.2855	-0.4849	0.0303	-0.3269	-0.0625	0.6742
7	0.01	15.70	-1.1311	-0.0080	-0.3224	0.0071	0.2850	-0.4386	0.0304	-0.3289	-0.0694	0.7499
8	0.02	14.94	-1.0535	-0.0051	-0.3155	0.0048	0.2994	-0.4464	0.0302	-0.3269	-0.0676	0.7323
9	0.01	14.15	-1.0515	-0.0040	-0.3052	0.0038	0.2902	-0.4350	0.0303	-0.3263	-0.0696	0.7501
10	0.0	13.34	-0.9606	-0.0020	-0.3038	0.0021	0.3162	-0.4578	0.0300	-0.3259	-0.0655	0.7119
11	0.01	12.64	-0.9271	-0.0015	-0.2893	0.0017	0.3121	-0.4464	0.0304	-0.3317	-0.0681	0.7431
12	-0.01	11.83	-0.9024	-0.0014	-0.2683	0.0016	0.2973	-0.4627	0.0305	-0.3276	-0.0659	0.7079
13	0.01	11.05	-0.8535	-0.0001	-0.2570	0.0002	0.3011	-0.4734	0.0305	-0.3304	-0.0644	0.6979
14	-0.01	10.23	-0.7705	0.0009	-0.2485	-0.0012	0.3226	-0.4763	0.0304	-0.3252	-0.0639	0.6827
15	-0.01	9.43	-0.7652	0.0006	-0.2298	-0.0008	0.3003	-0.4669	0.0301	-0.3314	-0.0645	0.7097
16	0.01	8.59	-0.6661	0.0007	-0.2215	-0.0011	0.3326	-0.5081	0.0302	-0.3261	-0.0594	0.6418
17	0.0	7.81	-0.6188	0.0014	-0.1565	-0.0023	0.3182	-0.4583	0.0301	-0.3287	-0.0658	0.7172
18	0.0	7.02	-0.5560	0.0003	-0.1827	-0.0005	0.3285	-0.4541	0.0300	-0.3327	-0.0661	0.7326
19	-0.01	6.30	-0.4818	0.0009	-0.1675	-0.0019	0.3486	-0.4575	0.0300	-0.3356	-0.0657	0.7336
20	0.0	5.39	-0.4194	0.0007	-0.1477	-0.0018	0.3520	-0.4681	0.0299	-0.3325	-0.0640	0.7102
21	0.0	4.62	-0.3442	0.0003	-0.1263	-0.0010	0.3669	-0.4542	0.0302	-0.3345	-0.0665	0.7365
22	-0.01	3.81	-0.2893	0.0003	-0.1075	-0.0010	0.3716	-0.4522	0.0299	-0.3346	-0.0661	0.7398
23	0.0	3.06	-0.2537	0.0007	-0.0833	-0.0030	0.3285	-0.4736	0.0300	-0.3302	-0.0634	0.6972
24	0.0	2.27	-0.2068	0.0009	-0.0633	-0.0046	0.3061	-0.4736	0.0299	-0.3347	-0.0631	0.7067
25	-0.01	1.54	-0.1182	0.0007	-0.0510	-0.0059	0.4314	-0.4476	0.0300	-0.3363	-0.0671	0.7514
26	-0.01	0.76	-0.0691	0.0001	-0.0215	-0.0022	0.3115	-0.4566	0.0300	-0.3369	-0.0657	0.7379
27	0.0	0.02	0.0054	-0.0000	-0.0102	-0.0093	-1.8890	-0.5019	0.0300	-0.3340	-0.0598	0.6655
28	0.0	-0.80	0.0304	-0.0003	-0.0137	-0.0099	0.4516	-0.4900	0.0303	-0.3368	-0.0618	0.6874
29	0.0	-1.58	0.0788	-0.0007	0.0298	-0.0089	0.3776	-0.4884	0.0301	-0.3346	-0.0617	0.6851
30	0.0	-2.34	0.1556	-0.0018	0.0483	-0.0116	0.3107	-0.5136	0.0301	-0.3356	-0.0587	0.6534
31	0.0	-3.21	0.1876	-0.0033	0.0726	-0.0176	0.3871	-0.5120	0.0301	-0.3335	-0.0589	0.6513
32	0.0	-4.03	0.2846	-0.0046	0.0876	-0.0163	0.3076	-0.5259	0.0304	-0.3358	-0.0579	0.6385
33	0.0	-4.77	0.3180	-0.0044	0.1153	-0.0140	0.3625	-0.4992	0.0301	-0.3362	-0.0603	0.6735
34	0.0	-5.58	0.3886	-0.0063	0.1348	-0.0162	0.3468	-0.5084	0.0301	-0.3316	-0.0593	0.6522
35	0.0	-6.34	0.4531	-0.0068	0.1529	-0.0150	0.3374	-0.5306	0.0301	-0.3281	-0.0560	0.6092
36	-0.01	-7.13	0.5086	-0.0073	0.1732	-0.0143	0.3405	-0.4961	0.0298	-0.3323	-0.0600	0.6698
37	-0.01	-7.96	0.5622	-0.0082	0.1945	-0.0146	0.3460	-0.5530	0.0302	-0.3258	-0.0546	0.5892
38	0.0	-8.71	0.5930	-0.0095	0.2155	-0.0161	0.3634	-0.5147	0.0299	-0.3294	-0.0582	0.6399
39	0.0	-9.54	0.6830	-0.0088	0.2237	-0.0129	0.3275	-0.5630	0.0299	-0.3267	-0.0532	0.5802
40	0.0	-10.30	0.7431	-0.0080	0.2341	-0.0108	0.3151	-0.5133	0.0304	-0.3294	-0.0592	0.6417
41	0.0	-11.08	0.7784	-0.0057	0.2547	-0.0073	0.3272	-0.4961	0.0306	-0.3366	-0.0618	0.6784
42	0.0	-11.83	0.8743	-0.0065	0.2619	-0.0074	0.2996	-0.4867	0.0310	-0.3374	-0.0637	0.6933
43	0.0	-12.65	0.9146	-0.0056	0.2734	-0.0062	0.2989	-0.4889	0.0306	-0.3379	-0.0627	0.6911
44	0.0	-13.39	0.9595	-0.0030	0.2866	-0.0032	0.2987	-0.5014	0.0306	-0.3314	-0.0611	0.6610
45	0.0	-14.24	0.9690	-0.0022	0.3052	-0.0023	0.3162	-0.4803	0.0304	-0.3324	-0.0633	0.6921
46	0.0	-15.09	1.0132	-0.0010	0.3053	-0.0010	0.3013	-0.4625	0.0289	-0.3319	-0.0625	0.7176

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 156 0.97 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPE1	YCPE1	CNF2	CM2	CB2	XCPE2	YCPE2
47	0.0	-15.89	1.0553	-0.0008	0.3208	-0.0008	0.3040	-0.4437	0.0290	-0.3352	-0.0653	0.7555
48	0.0	-16.69	1.0872	-0.0009	0.3323	-0.0008	0.3056	-0.4468	0.0286	-0.3294	-0.0575	0.6631
49	-0.01	-17.54	1.1641	-0.0016	0.3371	-0.0014	0.2896	-0.4882	0.0278	-0.3290	-0.0569	0.6740
50	-0.01	-18.43	1.2157	-0.0017	0.3437	-0.0014	0.2827	-0.4469	0.0285	-0.3366	-0.0639	0.7531
51	0.0	-19.27	1.1937	-0.0008	0.3662	-0.0007	0.3067	-0.4952	0.0279	-0.3316	-0.0563	0.6696
52	-0.01	-20.02	1.2378	0.0086	0.3479	0.0070	0.2810	-0.4761	0.0306	-0.3336	-0.0642	0.7007

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST PART MACH RX10-6												PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6												156	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4									
1	0.0	19.98	-1.0440	-0.0126	-0.4048	0.0121	0.3877	-0.0031	0.0141	-0.0085	-4.5476	2.7526									
2	0.02	19.60	-1.0415	-0.0131	-0.4117	0.0126	0.3953	-0.0030	0.0136	-0.0107	-0.3777	0.2971									
3	0.01	18.89	-1.0273	-0.0111	-0.3573	0.0108	0.3867	-0.0188	0.0168	-0.0094	-0.8961	0.4981									
4	-0.01	18.08	-1.0167	-0.0110	-0.3951	0.0109	0.3886	-0.0084	0.0126	-0.0144	-1.4997	1.7142									
5	0.0	17.28	-0.9524	-0.0080	-0.4024	0.0084	0.4225	-0.0328	0.0103	-0.0176	-0.3140	0.5375									
6	0.01	16.46	-0.9707	-0.0079	-0.3508	0.0082	0.4026	-0.0426	-0.0014	-0.0063	-0.0340	0.1478									
7	0.01	15.70	-0.9355	-0.0061	-0.3820	0.0065	0.4083	-0.0459	0.0005	-0.0100	-0.0109	0.2177									
8	0.02	14.94	-0.8930	-0.0061	-0.3710	0.0069	0.4154	-0.0359	-0.0041	-0.0004	0.1142	0.0101									
9	0.01	14.15	-0.8356	-0.0047	-0.3551	0.0056	0.4298	-0.0643	-0.0001	-0.0084	0.0023	0.1310									
10	0.0	13.34	-0.8195	-0.0043	-0.3414	0.0052	0.4167	-0.0810	-0.0025	0.0009	0.0309	-0.0112									
11	0.01	12.64	-0.7546	-0.0052	-0.3310	0.0069	0.4387	-0.0481	-0.0030	0.0037	0.0634	-0.0763									
12	-0.01	11.83	-0.7294	-0.0055	-0.3111	0.0075	0.4266	-0.0136	-0.0048	0.0004	0.3566	-0.0271									
13	0.01	11.05	-0.6603	-0.0056	-0.3014	0.0085	0.4265	-0.0312	-0.0046	0.0110	0.1474	-0.3527									
14	-0.01	10.23	-0.5869	-0.0052	-0.2911	0.0089	0.4961	-0.0313	-0.0041	0.0110	0.1326	-0.3505									
15	-0.01	9.43	-0.5920	-0.0056	-0.2635	0.0095	0.4452	-0.0050	-0.0036	0.0091	0.7299	-1.8268									
16	0.01	8.59	-0.5162	-0.0053	-0.2566	0.0103	0.4959	-0.0052	-0.0029	0.0092	0.5672	-1.7629									
17	0.0	7.81	-0.4848	-0.0054	-0.2321	0.0112	0.4786	-0.0052	-0.0029	0.0092	0.5672	-1.7629									
18	0.0	7.02	-0.4162	-0.0061	-0.2145	0.0147	0.5163	0.0013	-0.0035	0.0136	-2.6918	10.4871									
19	-0.01	6.30	-0.3432	-0.0057	-0.1978	0.0167	0.5762	0.0170	-0.0025	0.0042	-0.1500	0.5391									
20	0.0	5.39	-0.3260	-0.0055	-0.1670	0.0169	0.5123	-0.0069	-0.0024	0.0159	0.3550	-2.3045									
21	0.0	4.62	-0.2667	-0.0056	-0.1472	0.0212	0.5522	0.0049	-0.0020	0.0125	-0.4183	2.5577									
22	-0.01	3.81	-0.1931	-0.0054	-0.1261	0.0280	0.6533	0.0048	-0.0022	0.0132	-0.4687	2.7499									
23	0.0	3.06	-0.1743	-0.0048	-0.1001	0.0278	0.5742	0.0016	-0.0015	0.0103	-0.4373	6.4582									
24	0.0	2.27	-0.0977	-0.0040	-0.0789	0.0409	0.8081	0.0245	-0.0015	0.0077	-0.0633	0.3128									
25	-0.01	1.54	-0.0438	-0.0047	-0.0617	0.1084	1.4086	0.0356	-0.0006	0.0064	-0.0169	0.1787									
26	-0.01	0.76	0.0030	-0.0049	-0.0370	-1.6330	-12.3335	0.0165	-0.0006	0.0092	-0.0364	0.5575									
27	0.0	0.02	0.0196	-0.0045	-0.0074	-0.2321	-0.3760	-0.0138	-0.0009	0.0121	0.0652	-0.8769									
28	0.0	-0.80	0.0432	-0.0038	-0.0005	-0.0408	-0.0101	0.0485	-0.0014	0.0003	-0.0289	0.0054									
29	0.0	-1.58	0.1305	-0.0030	0.0221	-0.0230	0.1692	0.0015	-0.0009	0.0103	-0.5999	6.8665									
30	0.0	-2.34	0.1689	-0.0029	0.0491	-0.0172	0.2906	-0.0057	-0.0010	0.0092	0.1754	-1.6142									
31	0.0	-3.21	0.2083	-0.0017	0.0745	-0.0084	0.3577	-0.0223	-0.0008	0.0164	0.0359	-0.7340									
32	0.0	-4.03	0.2692	-0.0009	0.0955	-0.0033	0.3548	-0.0483	-0.0004	0.0154	0.0093	-0.3190									
33	0.0	-4.77	0.3623	0.0008	0.1145	0.0023	0.3161	-0.0125	-0.0003	0.0060	0.0280	-0.4828									
34	0.0	-5.58	0.3518	0.0010	0.1446	0.0030	0.4111	-0.0131	-0.0005	0.0093	0.0420	-0.7126									
35	0.0	-6.34	0.4364	0.0008	0.1585	0.0019	0.3636	-0.0130	-0.0005	0.0087	0.0423	-0.6668									
36	-0.01	-7.13	0.4980	0.0025	0.1778	0.0051	0.3571	-0.0392	-0.0008	0.0116	0.0217	-0.2969									
37	-0.01	-7.96	0.4898	0.0037	0.2082	0.0077	0.4251	-0.0419	-0.0011	0.0087	0.0274	-0.2086									
38	0.0	-8.71	0.5477	0.0048	0.2211	0.0089	0.4037	-0.0223	-0.0011	0.0033	0.0516	-0.1466									
39	0.0	-9.54	0.5828	0.0056	0.2393	0.0097	0.4106	-0.0344	-0.0004	0.0026	0.0135	-0.0770									
40	0.0	-10.30	0.6795	0.0083	0.2506	0.0123	0.3679	-0.0161	-0.0008	0.0064	0.0528	-0.3997									
41	0.0	-11.08	0.7367	0.0097	0.2602	0.0132	0.3532	-0.0297	-0.0008	0.0015	0.0286	-0.0506									
42	0.0	-11.83	0.7539	0.0105	0.2803	0.0140	0.3718	-0.0413	-0.0004	0.0021	0.0109	-0.0518									
43	0.0	-12.65	0.8493	0.0112	0.2913	0.0132	0.3430	-0.0381	-0.0003	0.0037	0.0092	-0.0972									
44	0.0	-13.39	0.8976	0.0126	0.3075	0.0141	0.3426	-0.0493	-0.0004	0.0037	0.0091	-0.0745									
45	0.0	-14.24	0.9077	0.0147	0.3276	0.0162	0.3609	-0.0493	-0.0009	0.0037	0.0183	-0.0745									
46	0.0	-15.09	0.9239	0.0178	0.3395	0.0193	0.3678	-0.0338	-0.0008	0.0019	0.0251	-0.0573									

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 156 0.97 1.7				0.0	B2W0F12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	0.0	-15.89	0.9048	0.0223	0.3479	0.0231	0.3606	-0.0377	-0.0010	0.0023	0.0265	-0.0620
48	0.0	-16.69	1.0034	0.0235	0.3581	0.0234	0.3569	-0.0493	-0.0009	0.0037	0.0183	-0.0745
49	-0.01	-17.54	1.0775	0.0237	0.3601	0.0220	0.3342	-0.0333	-0.0004	-0.0008	0.0135	0.0239
50	-0.01	-18.43	1.0887	0.0237	0.3681	0.0218	0.3381	-0.0169	-0.0004	-0.0060	0.0266	0.3569
51	0.0	-19.27	1.1396	0.0303	0.3559	0.0266	0.3123	-0.0242	-0.0014	-0.0058	0.0578	0.2382
52	-0.01	-20.02	1.1050	0.0346	0.3620	0.0313	0.3276	-0.0606	-0.0012	0.0043	0.0198	-0.0711

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	157	0.97	1.7	0.0	B2WUF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	3.07	19.88	0.2547	0.0864	-3.8432	8.2021	-0.1730	0.0907	0.3393	
2	3.06	19.50	0.2633	0.0974	-3.8856	8.0355	-0.1760	0.0861	0.3698	
3	3.05	18.74	0.2889	0.0535	-3.8650	8.0616	-0.1600	0.0773	0.1853	
4	3.08	17.97	0.2890	0.1404	-3.7624	8.0950	-0.1350	0.0684	0.4858	
5	3.06	17.14	0.2674	0.0626	-3.6164	8.0246	-0.1140	0.0710	0.2343	
6	3.07	16.37	0.3061	-0.0215	-3.4205	7.7642	-0.0850	0.0733	-0.0704	
7	3.04	15.61	0.3244	-0.0811	-3.2328	7.5455	-0.0520	0.0790	-0.2502	
8	3.05	14.81	0.3256	-0.1658	-3.0450	7.2046	-0.0330	0.0877	-0.5043	
9	3.03	14.07	0.3251	-0.2861	-2.8953	6.8301	-0.0230	0.0915	-0.8802	
10	3.04	13.28	0.3443	-0.3530	-2.7229	6.4918	0.0010	0.0839	-1.0253	
11	3.05	12.54	0.3617	-0.4433	-2.5104	6.1412	0.0150	0.0838	-1.2258	
12	3.04	11.81	0.3941	-0.6178	-2.3398	5.6654	0.0240	0.0814	-1.5674	
13	3.02	11.01	0.3861	-0.6356	-2.1382	5.3462	0.0360	0.0869	-1.6460	
14	3.02	10.22	0.4093	-0.7871	-1.9426	4.9044	0.0420	0.0933	-1.9227	
15	3.02	9.38	0.4386	-0.8531	-1.8152	4.5400	0.0420	0.0908	-1.9448	
16	3.03	8.59	0.4550	-0.9290	-1.6246	4.1292	0.0490	0.0988	-2.0416	
17	3.01	7.75	0.4583	-0.9786	-1.4331	3.6621	0.0430	0.1114	-2.1352	
18	3.00	7.04	0.4751	-1.0221	-1.2635	3.2468	0.0440	0.1194	-2.1513	
19	3.02	6.20	0.4893	-1.0590	-1.1528	2.9038	0.0420	0.1290	-2.1642	
20	3.01	5.38	0.5147	-1.1306	-0.9736	2.4695	0.0300	0.1312	-2.1904	
21	3.01	4.59	0.4878	-1.1504	-0.7886	2.0419	0.0220	0.1470	-2.3592	
22	3.02	3.79	0.4955	-1.1477	-0.6779	1.7410	0.0190	0.1544	-2.3161	
23	2.99	3.05	0.5163	-1.2138	-0.5725	1.4025	0.0150	0.1621	-2.3508	
24	3.00	2.29	0.5232	-1.2745	-0.4495	1.0401	0.0130	0.1680	-2.4453	
25	3.00	1.49	0.5240	-1.3306	-0.2410	0.6743	0.0120	0.1768	-2.5391	
26	3.00	0.78	0.5374	-1.3553	-0.1552	0.4112	0.0130	0.1812	-2.5219	
27	3.00	0.01	0.5255	-1.3237	-0.0317	0.1314	0.0110	0.1953	-2.5187	
28	3.02	-0.77	0.5589	-1.3654	0.1048	-0.1777	0.0140	0.1872	-2.4429	
29	3.00	-1.57	0.5266	-1.3182	0.3039	-0.5644	0.0130	0.1734	-2.5031	
30	2.99	-2.40	0.5273	-1.2912	0.2799	-0.7288	0.0130	0.1700	-2.4485	
31	3.02	-3.24	0.5347	-1.2446	0.5088	-1.1303	0.0090	0.1616	-2.3274	
32	3.02	-4.00	0.4966	-1.1772	0.6164	-1.4889	0.0090	0.1666	-2.3704	
33	3.03	-4.82	0.5062	-1.1347	0.7245	-1.8252	0.0080	0.1794	-2.2414	
34	3.02	-5.54	0.4803	-1.0874	0.9267	-2.2702	0.0030	0.1842	-2.2639	
35	3.03	-6.33	0.4862	-1.0527	1.0825	-2.6763	-0.0070	0.1813	-2.1650	
36	3.00	-7.14	0.4778	-1.0549	1.2352	-3.0158	-0.0020	0.1753	-2.2077	
37	3.01	-7.98	0.4793	-1.0470	1.3801	-3.4130	-0.0090	0.1673	-2.1843	
38	3.03	-8.73	0.4777	-1.0238	1.5609	-3.8710	-0.0110	0.1619	-2.1430	
39	3.03	-9.50	0.4371	-0.9510	1.7310	-4.2751	-0.0170	0.1623	-2.1754	
40	3.03	-10.32	0.4399	-0.9029	1.8892	-4.6685	-0.0230	0.1647	-2.0523	
41	3.03	-11.00	0.3904	-0.7646	2.0923	-5.1780	-0.0320	0.1500	-1.9583	
42	3.01	-11.83	0.4186	-0.8371	2.2574	-5.4868	-0.0240	0.1646	-1.9995	
43	3.02	-12.65	0.3772	-0.7520	2.4511	-5.8792	-0.0180	0.1601	-1.9938	
44	3.04	-13.42	0.3490	-0.5945	2.6214	-6.3345	-0.0110	0.1708	-1.7037	
45	3.04	-14.27	0.3498	-0.5386	2.8045	-6.6940	0.0070	0.1751	-1.5401	
46	3.05	-15.02	0.3308	-0.4271	3.0182	-7.0341	0.0320	0.1687	-1.2912	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6	157.0	97	1.7	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4 TRANSITION
				0.0	82WOF12	0.0	0	0	0	0 FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	3.04	-15.85	0.3518	-0.3615	3.1579	-7.3487	0.0690	0.1649	-1.0276	
48	3.04	-16.66	0.3639	-0.3794	3.2780	-7.6618	0.1060	0.1605	-1.0428	
49	3.05	-17.48	0.3278	-0.3159	3.4812	-7.8933	0.1170	0.1474	-0.9638	
50	3.03	-18.33	0.2911	-0.3435	3.6851	-7.9928	0.1380	0.1593	-1.1601	
51	3.04	-19.18	0.2864	-0.3419	3.7360	-7.9651	0.1750	0.1781	-1.1940	
52	3.06	-19.93	0.3863	-0.4419	3.9141	-8.1194	0.2270	0.1965	-1.1438	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		157	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	3.07	19.88	-1.1542	0.0002	-0.3422	-0.0002	0.2965	-0.1882	0.0321	-0.2425	-0.1705	1.2886
2	3.06	19.50	-1.1681	0.0008	-0.3276	-0.0007	0.2805	-0.1646	0.0321	-0.2410	-0.1950	1.4644
3	3.05	18.74	-1.1506	-0.0000	-0.3286	0.0000	0.2856	-0.1882	0.0320	-0.2396	-0.1703	1.2732
4	3.08	17.97	-1.1276	0.0002	-0.3231	-0.0002	0.2866	-0.1853	0.0318	-0.2410	-0.1716	1.3008
5	3.06	17.14	-1.0954	-0.0000	-0.3162	0.0000	0.2887	-0.1682	0.0317	-0.2404	-0.1887	1.4295
6	3.07	16.37	-1.0461	0.0002	-0.3024	-0.0002	0.2891	-0.1660	0.0309	-0.2388	-0.1861	1.4386
7	3.04	15.61	-0.9866	-0.0001	-0.2945	0.0002	0.2985	-0.1524	0.0308	-0.2433	-0.2021	1.5970
8	3.05	14.81	-0.9376	0.0009	-0.2837	-0.0010	0.3026	-0.1639	0.0302	-0.2412	-0.1845	1.4717
9	3.03	14.07	-0.9020	-0.0011	-0.2701	0.0013	0.2994	-0.1647	0.0295	-0.2407	-0.1791	1.4619
10	3.04	13.28	-0.8595	-0.0016	-0.2547	0.0019	0.2963	-0.1838	0.0290	-0.2398	-0.1580	1.3049
11	3.05	12.54	-0.7806	-0.0023	-0.2500	0.0029	0.3203	-0.1973	0.0294	-0.2464	-0.1490	1.2491
12	3.04	11.81	-0.7492	-0.0022	-0.2314	0.0030	0.3089	-0.1963	0.0292	-0.2397	-0.1487	1.2211
13	3.02	11.01	-0.7240	-0.0025	-0.2148	0.0035	0.2968	-0.1977	0.0297	-0.2482	-0.1505	1.2558
14	3.02	10.22	-0.6286	-0.0018	-0.2161	0.0029	0.3437	-0.2046	0.0299	-0.2455	-0.1464	1.2003
15	3.02	9.38	-0.6045	-0.0017	-0.2017	0.0029	0.3337	-0.2094	0.0300	-0.2533	-0.1432	1.2100
16	3.03	8.59	-0.5865	-0.0007	-0.1841	0.0013	0.3140	-0.1910	0.0301	-0.2548	-0.1578	1.3343
17	3.01	7.73	-0.4897	-0.0005	-0.1762	0.0011	0.3598	-0.1817	0.0299	-0.2569	-0.1648	1.4141
18	3.00	7.04	-0.4525	-0.0005	-0.1604	0.0011	0.3544	-0.1846	0.0300	-0.2577	-0.1585	1.3596
19	3.02	6.20	-0.3647	-0.0018	-0.1436	0.0048	0.3732	-0.1756	0.0301	-0.2593	-0.1717	1.4767
20	3.01	5.38	-0.3743	-0.0009	-0.1262	0.0024	0.3372	-0.1878	0.0302	-0.2567	-0.1610	1.3673
21	3.01	4.59	-0.2828	-0.0003	-0.1102	0.0011	0.3698	-0.1959	0.0299	-0.2552	-0.1529	1.3031
22	3.02	3.79	-0.2148	0.0013	-0.1016	-0.0063	0.4729	-0.1940	0.0299	-0.2590	-0.1541	1.3353
23	2.99	3.05	-0.2495	0.0022	-0.0695	-0.0088	0.2780	-0.1945	0.0299	-0.2597	-0.1537	1.3353
24	3.00	2.29	-0.1723	0.0026	-0.0551	-0.0151	0.3199	-0.2002	0.0295	-0.2586	-0.1476	1.2918
25	3.00	1.49	-0.1073	0.0028	-0.0414	-0.0261	0.3863	-0.1912	0.0294	-0.2608	-0.1540	1.3641
26	3.00	0.78	-0.0615	0.0021	-0.0156	-0.0341	0.2535	-0.2007	0.0294	-0.2581	-0.1465	1.2864
27	3.00	0.01	-0.0130	0.0003	-0.0080	-0.0231	0.6178	-0.2070	0.0293	-0.2681	-0.1418	1.2955
28	3.02	-0.77	0.0346	-0.0013	0.0080	-0.0390	0.2321	-0.2064	0.0296	-0.2696	-0.1434	1.3066
29	3.00	-1.57	0.0844	-0.0028	0.0298	-0.0332	0.3534	-0.2206	0.0296	-0.2686	-0.1342	1.2176
30	2.99	-2.40	0.1225	-0.0030	0.0414	-0.0245	0.3381	-0.2349	0.0295	-0.2731	-0.1258	1.1629
31	3.02	-3.24	0.1584	-0.0031	0.0631	-0.0199	0.3922	-0.2356	0.0292	-0.2754	-0.1239	1.1690
32	3.02	-4.00	0.2235	-0.0029	0.0833	-0.0130	0.3726	-0.2521	0.0284	-0.2836	-0.1126	1.1250
33	3.03	-4.82	0.2783	-0.0046	0.0990	-0.0165	0.3558	-0.2672	0.0273	-0.2849	-0.1022	1.0664
34	3.02	-5.54	0.3280	-0.0036	0.1163	-0.0111	0.3545	-0.2734	0.0259	-0.2908	-0.0947	1.0640
35	3.03	-6.33	0.3637	-0.0038	0.1413	-0.0104	0.3885	-0.2670	0.0244	-0.2941	-0.0916	1.1018
36	3.00	-7.14	0.4269	-0.0054	0.1548	-0.0126	0.3625	-0.3109	0.0222	-0.2923	-0.0714	0.9400
37	3.01	-7.98	0.4605	-0.0049	0.1654	-0.0107	0.3593	-0.3157	0.0209	-0.3002	-0.0663	0.9507
38	3.03	-8.73	0.5116	-0.0050	0.1815	-0.0110	0.3547	-0.3258	0.0197	-0.3038	-0.0604	0.9325
39	3.03	-9.50	0.5295	-0.0054	0.2018	-0.0103	0.3812	-0.3243	0.0189	-0.3075	-0.0584	0.9482
40	3.03	-10.32	0.6055	-0.0043	0.2065	-0.0071	0.3410	-0.3896	0.0176	-0.3066	-0.0453	0.7869
41	3.03	-11.00	0.6748	-0.0032	0.2191	-0.0048	0.3248	-0.3574	0.0163	-0.3183	-0.0456	0.8904
42	3.01	-11.83	0.7179	-0.0031	0.2218	-0.0043	0.3090	-0.3909	0.0149	-0.3199	-0.0381	0.8184
43	3.02	-12.65	0.7428	-0.0040	0.2360	-0.0055	0.3177	-0.4405	0.0141	-0.3220	-0.0320	0.7309
44	3.04	-13.42	0.8166	-0.0054	0.2534	-0.0067	0.3103	-0.5006	0.0130	-0.3256	-0.0260	0.6504
45	3.04	-14.27	0.8304	-0.0050	0.2673	-0.0060	0.3219	-0.5550	0.0124	-0.3374	-0.0224	0.6079
46	3.05	-15.02	0.8577	-0.0056	0.2882	-0.0065	0.3360	-0.5914	0.0128	-0.3505	-0.0233	0.6357

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6	157	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	3.04	-15.45	0.9348	-0.0070	0.2967	-0.0075	0.3174	-0.5876	0.0136	-0.3613	-0.0231	0.6148
48	3.04	-16.66	1.0101	-0.0068	0.3076	-0.0067	0.3045	-0.6358	0.0152	-0.3637	-0.0240	0.5721
49	3.05	-17.48	1.0421	-0.0075	0.3187	-0.0072	0.3058	-0.5806	0.0149	-0.3744	-0.0257	0.6449
50	3.03	-18.33	1.0779	-0.0090	0.3245	-0.0084	0.3014	-0.6585	0.0129	-0.3457	-0.0197	0.5250
51	3.04	-19.18	1.1241	-0.0104	0.3363	-0.0093	0.2991	-0.8974	0.0125	-0.2873	-0.0140	0.3202
52	3.06	-19.93	1.1634	-0.0087	0.3550	-0.0075	0.3051	-0.5560	0.0171	-0.3897	-0.0307	0.7010

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			157		0.97		1.7	0.0	82WUFL2	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4		
1	3.07	19.88	-1.0518	-0.0353	-0.3735	0.0335	0.3551	-0.1607	-0.0324	-0.0324	0.2016	0.2019		
2	3.06	19.50	-1.0155	-0.0349	-0.3754	0.0344	0.3696	-0.1821	-0.0343	-0.0240	0.1883	0.1591		
3	3.05	18.74	-1.0159	-0.0309	-0.3872	0.0305	0.3811	-0.1681	-0.0359	-0.0274	0.2135	0.1631		
4	3.04	17.97	-1.0394	-0.0250	-0.4082	0.0241	0.3928	-0.1675	-0.0292	-0.0463	0.1746	0.2765		
5	3.06	17.14	-1.0594	-0.0188	-0.4115	0.0178	0.3884	-0.1705	-0.0327	-0.0351	0.1920	0.2059		
6	3.07	16.37	-1.0516	-0.0135	-0.4048	0.0128	0.3849	-0.1390	-0.0372	-0.0219	0.2676	0.1577		
7	3.04	15.61	-0.9984	-0.0077	-0.4164	0.0078	0.4170	-0.1211	-0.0412	-0.0024	0.3402	0.0194		
8	3.05	14.81	-0.9799	-0.0026	-0.4063	0.0027	0.4146	-0.0817	-0.0426	0.0030	0.5219	-0.0364		
9	3.03	14.07	-0.9059	0.0002	-0.3994	-0.0003	0.4408	-0.0499	-0.0418	0.0071	0.8385	-0.1417		
10	3.04	13.28	-0.8735	0.0001	-0.3884	-0.0002	0.4446	-0.0345	-0.0443	0.0216	1.2853	-0.6262		
11	3.05	12.54	-0.8531	-0.0008	-0.3662	0.0009	0.4292	0.0041	-0.0436	0.0289	-10.6444	7.0405		
12	3.04	11.81	-0.8127	-0.0011	-0.3445	0.0014	0.4239	0.0451	-0.0439	0.0421	-0.9743	0.9341		
13	3.02	11.01	-0.7481	-0.0027	-0.3302	0.0036	0.4413	0.0193	-0.0417	0.0554	-2.1602	2.8721		
14	3.02	10.22	-0.6973	-0.0033	-0.3098	0.0048	0.4443	0.1225	-0.0396	0.0511	-0.3236	0.4173		
15	3.02	9.38	-0.6081	-0.0047	-0.2990	0.0078	0.4917	0.1282	-0.0361	0.0556	-0.2819	0.4338		
16	3.03	8.59	-0.5891	-0.0056	-0.2688	0.0096	0.4563	0.1315	-0.0310	0.0674	-0.2357	0.5127		
17	3.01	7.75	-0.5323	-0.0063	-0.2407	0.0119	0.4521	0.1428	-0.0283	0.0755	-0.1845	0.5286		
18	3.00	7.04	-0.4541	-0.0066	-0.2293	0.0146	0.5049	0.1646	-0.0224	0.0713	-0.1364	0.4335		
19	3.02	6.20	-0.3918	-0.0062	-0.2095	0.0158	0.5346	0.1357	-0.0169	0.0798	-0.1245	0.5882		
20	3.01	5.38	-0.3215	-0.0073	-0.1795	0.0249	0.5583	0.2027	-0.0115	0.0721	-0.0570	0.3559		
21	3.01	4.59	-0.3015	-0.0071	-0.1483	0.0235	0.4917	0.1812	-0.0083	0.0801	-0.0458	0.4419		
22	3.02	3.79	-0.2367	-0.0071	-0.1231	0.0302	0.5204	0.1801	-0.0053	0.0777	-0.0294	0.4315		
23	2.99	3.05	-0.1397	-0.0053	-0.1102	0.0383	0.7892	0.2250	-0.0042	0.0747	-0.0187	0.3319		
24	3.00	2.29	-0.1249	-0.0049	-0.0756	0.0396	0.6054	0.2141	-0.0023	0.0817	-0.0107	0.3818		
25	3.00	1.49	-0.0705	-0.0051	-0.0552	0.0723	0.7829	0.2039	-0.0028	0.0840	-0.0140	0.4122		
26	3.00	0.78	-0.0114	-0.0042	-0.0348	0.3684	3.0525	0.2211	-0.0027	0.0856	-0.0124	0.3870		
27	3.00	0.01	0.0479	-0.0036	-0.0152	-0.0762	-0.3181	0.2223	-0.0033	0.0861	-0.0148	0.3872		
28	3.02	-0.77	0.0705	-0.0033	0.0084	-0.0475	-0.1190	0.2223	-0.0024	0.0891	-0.0108	0.4007		
29	3.00	-1.57	0.1490	-0.0021	0.0228	-0.0141	0.1533	0.2011	-0.0023	0.0960	-0.0114	0.4774		
30	2.99	-2.40	0.1804	-0.0019	0.0505	-0.0105	0.2800	0.2246	-0.0023	0.0938	-0.0105	0.4178		
31	3.02	-3.24	0.2401	-0.0005	0.0760	-0.0023	0.3166	0.2167	-0.0017	0.0946	-0.0078	0.4366		
32	3.02	-4.00	0.2640	0.0006	0.1052	0.0023	0.3705	0.2065	-0.0013	0.0906	-0.0065	0.4388		
33	3.03	-4.82	0.3433	0.0018	0.1255	0.0052	0.3655	0.2067	-0.0013	0.0900	-0.0065	0.4353		
34	3.02	-5.54	0.4030	0.0020	0.1495	0.0051	0.3709	0.2049	-0.0020	0.0882	-0.0100	0.4303		
35	3.03	-6.33	0.4813	0.0026	0.1739	0.0054	0.3613	0.1890	-0.0012	0.0920	-0.0066	0.4867		
36	3.00	-7.14	0.5061	0.0046	0.2003	0.0091	0.3958	0.2152	-0.0018	0.0843	-0.0086	0.3918		
37	3.01	-7.98	0.5768	0.0054	0.2215	0.0094	0.3840	0.2227	-0.0013	0.0893	-0.0061	0.4010		
38	3.03	-8.73	0.6137	0.0057	0.2441	0.0094	0.3977	0.1925	-0.0023	0.0920	-0.0119	0.4781		
39	3.03	-9.50	0.6814	0.0064	0.2646	0.0095	0.3884	0.1888	-0.0021	0.0970	-0.0111	0.5138		
40	3.03	-10.32	0.7560	0.0067	0.2841	0.0089	0.3758	0.2014	-0.0005	0.0890	-0.0025	0.4420		
41	3.03	-11.00	0.8002	0.0076	0.3074	0.0096	0.3842	0.1852	-0.0032	0.0848	-0.0175	0.4579		
42	3.01	-11.83	0.8784	0.0076	0.3188	0.0087	0.3629	0.1859	-0.0035	0.0977	-0.0191	0.5258		
43	3.02	-12.65	0.9261	0.0086	0.3389	0.0093	0.3659	0.1888	-0.0042	0.0997	-0.0222	0.5281		
44	3.04	-13.42	0.9699	0.0097	0.3545	0.0100	0.3655	0.1719	-0.0033	0.0957	-0.0195	0.5566		
45	3.04	-14.27	0.9942	0.0111	0.3701	0.0112	0.3722	0.2264	-0.0021	0.0906	-0.0093	0.4004		
46	3.05	-15.02	1.0499	0.0131	0.3769	0.0144	0.3541	0.1926	-0.0012	0.0877	-0.0062	0.4552		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 157 0.97 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.04	-15.85	1.0959	0.0184	0.3741	0.0168	0.3413	0.2024	0.0005	0.0896	0.0025	0.4429
48	3.04	-16.66	1.0939	0.0261	0.3786	0.0239	0.3461	0.2501	0.0006	0.0812	0.0026	0.3248
49	3.05	-17.48	1.1140	0.0342	0.3685	0.0307	0.3308	0.2015	0.0006	0.0846	0.0032	0.4201
50	3.03	-18.33	1.0890	0.0397	0.3437	0.0364	0.3156	0.2299	0.0001	0.0767	0.0007	0.3336
51	3.04	-19.18	1.0278	0.0479	0.3222	0.0466	0.3135	0.1699	0.0011	0.0880	0.0065	0.5180
52	3.06	-19.93	1.0793	0.0447	0.3266	0.0414	0.3026	0.2005	0.0022	0.0846	0.0112	0.4220

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 158 0.97 1.7				0.0	B2WDF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	6.11	19.94	0.8228	-0.9779	-3.7281	7.3921	-0.2820	0.0649	-1.1886		
2	6.10	19.69	0.9060	-1.1034	-3.8286	7.3778	-0.2700	0.0636	-1.2179		
3	6.09	18.94	0.8542	-1.0449	-3.7827	7.5035	-0.2580	0.0525	-1.2232		
4	6.10	18.15	0.8401	-1.1821	-3.5879	7.3208	-0.2330	0.0567	-1.3281		
5	6.11	17.35	0.8804	-1.1625	-3.5497	7.4043	-0.1850	0.0469	-1.3205		
6	6.09	16.52	0.9050	-1.2600	-3.4140	7.3682	-0.1390	0.0353	-1.3923		
7	6.08	15.81	0.8623	-1.2442	-3.2900	7.3576	-0.0790	0.0267	-1.4429		
8	6.09	15.04	0.8846	-1.4074	-3.0427	6.9564	-0.0500	0.0312	-1.5910		
9	6.07	14.25	0.9113	-1.5488	-2.8901	6.7148	-0.0260	0.0440	-1.6495		
10	6.07	13.47	0.9054	-1.5495	-2.7764	6.4147	-0.0020	0.0389	-1.7666		
11	6.07	12.77	0.9351	-1.7500	-2.5886	6.0637	0.0040	0.0623	-1.8716		
12	6.05	11.95	0.9458	-1.8750	-2.3389	5.6341	0.0130	0.0727	-1.9825		
13	6.06	11.17	0.9771	-1.9068	-2.2047	5.2793	0.0190	0.0812	-2.0130		
14	6.06	10.42	1.0012	-2.1235	-2.0421	4.9247	0.0330	0.0964	-2.1211		
15	6.03	9.62	1.0045	-2.1931	-1.8347	4.4753	0.0270	0.1080	-2.1834		
16	6.03	8.79	1.0142	-2.2727	-1.6529	4.0358	0.0320	0.1209	-2.2410		
17	6.03	7.99	1.0104	-2.3124	-1.5420	3.6706	0.0310	0.1175	-2.2887		
18	6.04	7.19	1.0022	-2.3509	-1.3165	3.2340	0.0360	0.1087	-2.3458		
19	6.01	6.43	1.0279	-2.4419	-1.1380	2.7930	0.0270	0.1207	-2.3757		
20	6.04	5.60	1.0439	-2.4903	-0.9834	2.4156	0.0230	0.1163	-2.3856		
21	6.03	4.78	1.0526	-2.5774	-0.8766	2.0521	0.0170	0.1221	-2.4487		
22	6.01	4.02	1.0396	-2.5312	-0.7382	1.7174	0.0160	0.1304	-2.4349		
23	6.02	3.26	1.0470	-2.5806	-0.5676	1.3656	0.0100	0.1358	-2.4648		
24	6.00	2.53	1.0773	-2.7160	-0.4440	1.0106	0.0070	0.1489	-2.5156		
25	6.00	1.70	1.0731	-2.6971	-0.3240	0.7385	0.0020	0.1571	-2.5135		
26	6.02	0.96	1.0740	-2.7214	-0.1513	0.4518	0.0100	0.1634	-2.5340		
27	6.01	0.21	1.0977	-2.7746	-0.0901	0.2041	0.0110	0.1735	-2.5277		
28	6.02	-0.55	1.0904	-2.7623	0.0531	-0.1063	0.0170	0.1708	-2.5344		
29	6.00	-1.34	1.0905	-2.7905	0.1791	-0.3397	0.0250	0.1705	-2.5590		
30	6.00	-2.20	1.0704	-2.7283	0.2202	-0.6362	0.0310	0.1730	-2.5490		
31	6.03	-2.99	1.0592	-2.6407	0.4128	-0.9119	0.0270	0.1581	-2.4932		
32	6.01	-3.76	1.0675	-2.5883	0.5303	-1.2084	0.0200	0.1581	-2.4247		
33	6.02	-4.56	1.0665	-2.5589	0.6589	-1.5784	0.0200	0.1583	-2.3994		
34	6.03	-5.26	1.0588	-2.5401	0.8320	-1.8827	0.0100	0.1588	-2.3991		
35	6.01	-6.13	1.0266	-2.4951	0.9878	-2.3597	0.0110	0.1551	-2.4305		
36	6.02	-6.89	1.0500	-2.4158	1.1586	-2.7780	0.0030	0.1536	-2.3009		
37	6.03	-7.70	1.0055	-2.3355	1.2989	-3.1653	0.0010	0.1535	-2.3228		
38	6.05	-8.47	1.0147	-2.3244	1.4743	-3.5418	0.0080	0.1472	-2.2908		
39	6.02	-9.26	1.0192	-2.2927	1.6886	-4.0318	0.0080	0.1410	-2.2476		
40	6.04	-10.07	1.0067	-2.2122	1.8336	-4.4417	0.0060	0.1479	-2.1976		
41	6.04	-10.79	0.9865	-2.1010	2.0222	-4.8309	0.0060	0.1392	-2.1298		
42	6.05	-11.56	0.9889	-2.1533	2.1904	-5.2013	0.0070	0.1361	-2.1776		
43	6.04	-12.28	0.9247	-1.9765	2.3595	-5.6520	-0.0010	0.1324	-2.1375		
44	6.05	-13.12	0.8876	-1.8325	2.5351	-6.0778	-0.0090	0.1413	-2.0646		
45	6.03	-13.94	0.8585	-1.7218	2.7309	-6.5270	-0.0100	0.1372	-2.0056		
46	6.06	-14.78	0.8354	-1.6235	2.9206	-6.8465	0.0160	0.1314	-1.9434		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 158 0.97 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	6.05	-15.54	0.8375	-1.4934	3.1025	-7.1691	0.0390	0.1332	-1.7832		
48	6.05	-16.38	0.8513	-1.6227	3.2398	-7.2183	0.0800	0.1339	-1.9062		
49	6.05	-17.18	0.7600	-1.3590	3.3503	-7.3550	0.1310	0.1525	-1.7423		
50	6.05	-18.04	0.7920	-1.4228	3.4517	-7.1801	0.1960	0.1876	-1.7964		
51	6.06	-18.85	0.8701	-1.5481	3.5350	-6.9818	0.2850	0.2126	-1.7792		
52	6.07	-19.63	0.9092	-1.6618	3.6408	-6.4890	0.3500	0.2630	-1.8278		
53	6.09	-20.24	0.9372	-1.5740	3.6755	-6.3586	0.3889	0.2676	-1.6795		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 158 0.97 1.7			0.0	BZUOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	6.11	19.94	-1.0401	0.0099	-0.3188	-0.0096	0.3065	0.0083	0.0356	-0.1486	4.2944	-17.9077
2	6.10	19.69	-1.0501	0.0109	-0.3165	-0.0104	0.3018	0.0301	0.0362	-0.1515	1.2024	-5.0356
3	6.09	18.94	-1.0371	0.0106	-0.3068	-0.0102	0.2958	0.0027	0.0355	-0.1492	13.1643	-55.2593
4	6.10	18.15	-1.0199	0.0105	-0.3024	-0.0103	0.2965	-0.0045	0.0354	-0.1489	-7.8653	33.0888
5	6.11	17.35	-0.9738	0.0099	-0.3011	-0.0102	0.3092	0.0494	0.0353	-0.1541	0.7155	-3.1202
6	6.09	16.52	-0.9405	0.0098	-0.2831	-0.0105	0.3010	0.0473	0.0343	-0.1509	0.7261	-3.1911
7	6.08	15.81	-0.8920	0.0076	-0.2730	-0.0086	0.3061	0.0394	0.0339	-0.1536	0.8615	-3.9003
8	6.09	15.04	-0.8246	0.0058	-0.2637	-0.0070	0.3198	0.0472	0.0328	-0.1563	0.6948	-3.3130
9	6.07	14.25	-0.7779	0.0051	-0.2537	-0.0066	0.3261	0.0627	0.0324	-0.1551	0.5167	-2.4738
10	6.07	13.47	-0.7573	0.0059	-0.2387	-0.0079	0.3153	0.0500	0.0323	-0.1617	0.6459	-3.2348
11	6.07	12.77	-0.7130	0.0060	-0.2313	-0.0085	0.3244	0.0308	0.0321	-0.1587	1.0420	-5.1538
12	6.05	11.95	-0.6674	0.0064	-0.2195	-0.0096	0.3289	0.0276	0.0321	-0.1572	1.1646	-5.6958
13	6.06	11.17	-0.6166	0.0071	-0.2148	-0.0116	0.3483	0.0086	0.0318	-0.1610	3.7028	-18.7249
14	6.06	10.42	-0.5658	0.0089	-0.2001	-0.0157	0.3537	0.0077	0.0318	-0.1628	4.1291	-21.1473
15	6.03	9.62	-0.5246	0.0096	-0.1872	-0.0183	0.3568	0.0043	0.0315	-0.1592	7.3243	-37.0389
16	6.03	8.79	-0.5095	0.0103	-0.1685	-0.0202	0.3307	-0.0196	0.0318	-0.1611	-1.6247	8.2210
17	6.03	7.99	-0.4367	0.0089	-0.1598	-0.0205	0.3660	-0.0297	0.0318	-0.1659	-1.0722	5.5857
18	6.04	7.19	-0.3958	0.0100	-0.1397	-0.0254	0.3529	-0.0465	0.0326	-0.1658	-0.7010	3.5655
19	6.01	6.43	-0.3360	0.0112	-0.1308	-0.0333	0.3868	-0.0406	0.0327	-0.1679	-0.8065	4.1362
20	6.04	5.60	-0.2977	0.0108	-0.1209	-0.0363	0.4061	-0.0592	0.0328	-0.1733	-0.5540	2.9278
21	6.03	4.78	-0.2314	0.0132	-0.1034	-0.0572	0.4469	-0.0326	0.0327	-0.1723	-1.0029	5.2872
22	6.01	4.02	-0.2539	0.0120	-0.0774	-0.0473	0.3049	-0.0595	0.0328	-0.1774	-0.5520	2.9820
23	6.02	3.26	-0.1671	0.0129	-0.0747	-0.0775	0.4469	-0.0571	0.0327	-0.1758	-0.5735	3.0793
24	6.00	2.53	-0.1103	0.0146	-0.0644	-0.1328	0.5843	-0.0722	0.0327	-0.1781	-0.4535	2.4676
25	6.00	1.70	-0.1143	0.0138	-0.0415	-0.1212	0.3630	-0.0705	0.0324	-0.1849	-0.4595	2.6226
26	6.02	0.96	-0.0579	0.0067	-0.0178	-0.1166	0.3073	-0.0799	0.0323	-0.1878	-0.4048	2.3507
27	6.01	0.21	0.0066	0.0018	-0.0145	-0.2803	-2.2577	-0.0978	0.0325	-0.1902	-0.3328	1.9447
28	6.02	-0.55	0.0203	-0.0041	-0.0061	-0.2044	0.2987	-0.0973	0.0327	-0.1956	-0.3360	2.0105
29	6.00	-1.34	0.0520	-0.0104	0.0284	-0.2009	0.5467	-0.0973	0.0325	-0.2001	-0.3345	2.0568
30	6.00	-2.20	0.0704	-0.0148	0.0457	-0.2102	0.6486	-0.1383	0.0325	-0.2009	-0.2350	1.4532
31	6.03	-2.99	0.1192	-0.0149	0.0590	-0.1250	0.4951	-0.1536	0.0323	-0.2074	-0.2106	1.3508
32	6.01	-3.76	0.1869	-0.0156	0.0672	-0.0837	0.3594	-0.1359	0.0322	-0.2177	-0.2369	1.6025
33	6.02	-4.56	0.2434	-0.0150	0.0853	-0.0616	0.3505	-0.1145	0.0311	-0.2280	-0.2716	1.9917
34	6.03	-5.26	0.2556	-0.0136	0.0950	-0.0532	0.3716	-0.1045	0.0301	-0.2319	-0.2885	2.2193
35	6.01	-6.13	0.3079	-0.0133	0.1080	-0.0433	0.3507	-0.1103	0.0281	-0.2438	-0.2552	2.2108
36	6.02	-6.89	0.3054	-0.0112	0.1402	-0.0367	0.4589	-0.1352	0.0262	-0.2522	-0.1938	1.8658
37	6.03	-7.70	0.3841	-0.0108	0.1433	-0.0282	0.3730	-0.1344	0.0248	-0.2588	-0.1845	1.9262
38	6.05	-8.47	0.4511	-0.0110	0.1545	-0.0244	0.3425	-0.1379	0.0228	-0.2674	-0.1657	1.9395
39	6.02	-9.26	0.4880	-0.0103	0.1679	-0.0211	0.3441	-0.1545	0.0210	-0.2812	-0.1362	1.8206
40	6.04	-10.07	0.5473	-0.0104	0.1802	-0.0191	0.3292	-0.1560	0.0198	-0.2923	-0.1272	1.8742
41	6.04	-10.79	0.5783	-0.0089	0.1939	-0.0155	0.3353	-0.1776	0.0189	-0.2985	-0.1064	1.6812
42	6.05	-11.56	0.6192	-0.0098	0.2040	-0.0158	0.3295	-0.1765	0.0180	-0.3006	-0.1022	1.7032
43	6.04	-12.28	0.6407	-0.0115	0.2176	-0.0180	0.3396	-0.1895	0.0169	-0.3035	-0.0894	1.6018
44	6.05	-13.12	0.6943	-0.0117	0.2282	-0.0169	0.3288	-0.1867	0.0154	-0.3105	-0.0827	1.6632
45	6.03	-13.94	0.7341	-0.0118	0.2361	-0.0161	0.3216	-0.2294	0.0136	-0.3112	-0.0593	1.3568
46	6.06	-14.78	0.7766	-0.0148	0.2511	-0.0191	0.3233	-0.2354	0.0126	-0.3276	-0.0535	1.3918

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6													
°		158	0.97	1.7	PHI	CNFI	L	DELI	DEL2	DEL3	DEL4	TRANSITION	
					0.0	82WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNFI	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	6.05	-15.54	0.7920	-0.0172	0.2723	-0.0217	0.3438	-0.2420	0.0112	-0.3322	-0.0465	1.3729	
48	6.05	-16.38	0.8798	-0.0194	0.2789	-0.0220	0.3170	-0.2736	0.0073	-0.3211	-0.0269	1.1739	
49	6.05	-17.18	0.9298	-0.0193	0.2899	-0.0207	0.3118	-0.2668	0.0082	-0.3444	-0.0309	1.2912	
50	6.05	-18.04	0.9618	-0.0195	0.2986	-0.0203	0.3104	-0.2211	0.0059	-0.3431	-0.0269	1.5521	
51	6.06	-18.85	0.9898	-0.0192	0.3126	-0.0194	0.3158	-0.2398	0.0066	-0.3593	-0.0277	1.4988	
52	6.07	-19.63	0.9732	-0.0223	0.3260	-0.0229	0.3350	-0.2719	0.0086	-0.3556	-0.0318	1.3082	
53	6.09	-20.24	1.0121	-0.0214	0.3208	-0.0212	0.3169	-0.2900	0.0095	-0.3657	-0.0329	1.2608	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	OEL3	OEL4	TRANSITION
6		158		0.97		1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
1	6.11	19.94	-1.0072	-0.0397	-0.3383	0.0395	0.3359	-0.1288	-0.0319	-0.0026	0.2480	0.0203	
2	6.10	19.69	-0.9621	-0.0374	-0.3332	0.0389	0.3463	-0.0889	-0.0340	-0.0000	0.3829	0.0003	
3	6.09	18.94	-0.9290	-0.0362	-0.3474	0.0390	0.3739	-0.0810	-0.0359	0.0026	0.4437	-0.0322	
4	6.10	18.15	-1.0318	-0.0360	-0.3460	0.0349	0.3353	-0.0718	-0.0389	0.0129	0.5424	-0.1793	
5	6.11	17.35	-1.0333	-0.0310	-0.3805	0.0300	0.3682	-0.0424	-0.0404	0.0142	0.5527	-0.3342	
6	6.09	16.52	-1.0796	-0.0276	-0.3572	0.0256	0.3679	-0.0406	-0.0424	0.0253	1.0441	-0.6225	
7	6.08	15.81	-1.0379	-0.0120	-0.4285	0.0116	0.4129	-0.0206	-0.0400	0.0335	1.9414	-1.6279	
8	6.09	15.04	-1.0560	-0.0057	-0.4138	0.0054	0.3918	0.0030	-0.0400	0.0453	13.3310	15.0999	
9	6.07	14.25	-0.9943	-0.0007	-0.4197	0.0067	0.4221	0.0408	-0.0395	0.0602	-0.9680	1.4754	
10	6.07	13.47	-0.9433	-0.0008	-0.4072	0.0008	0.4317	0.0943	-0.0405	0.0749	-0.4299	0.7945	
11	6.07	12.77	-0.9042	0.0002	-0.3944	-0.0003	0.4362	0.1635	-0.0388	0.0666	-0.2373	0.4072	
12	6.05	11.95	-0.8310	-0.0014	-0.3760	0.0017	0.4524	0.1578	-0.0382	0.0867	-0.2424	0.5493	
13	6.06	11.17	-0.8083	-0.0012	-0.3512	0.0015	0.4345	0.1583	-0.0378	0.0998	-0.2391	0.6308	
14	6.06	10.42	-0.7413	-0.0022	-0.3378	0.0030	0.4557	0.2079	-0.0357	0.1067	-0.1719	0.5131	
15	6.03	9.62	-0.6819	-0.0029	-0.3125	0.0043	0.4583	0.2655	-0.0329	0.1057	-0.1239	0.3984	
16	6.03	8.79	-0.6032	-0.0026	-0.2961	0.0044	0.4908	0.2870	-0.0235	0.1124	-0.1029	0.3917	
17	6.03	7.99	-0.5491	-0.0044	-0.2667	0.0081	0.4856	0.2740	-0.0234	0.1278	-0.0927	0.4664	
18	6.04	7.19	-0.4847	-0.0060	-0.2464	0.0125	0.5083	0.3171	-0.0202	0.1256	-0.0638	0.3960	
19	6.01	6.43	-0.4062	-0.0071	-0.2164	0.0175	0.5318	0.3142	-0.0159	0.1351	-0.0506	0.4259	
20	6.04	5.60	-0.3418	-0.0064	-0.1899	0.0189	0.5555	0.3278	-0.0121	0.1367	-0.0369	0.4171	
21	6.03	4.78	-0.2680	-0.0066	-0.1643	0.0229	0.5710	0.3397	-0.0080	0.1457	-0.0237	0.4289	
22	6.01	4.02	-0.2285	-0.0061	-0.1412	0.0269	0.6181	0.3379	-0.0049	0.1453	-0.0146	0.4300	
23	6.02	3.26	-0.1888	-0.0055	-0.1092	0.0294	0.5784	0.3695	-0.0038	0.1487	-0.0098	0.3817	
24	6.00	2.53	-0.1178	-0.0049	-0.0848	0.0420	0.7628	0.3849	-0.0030	0.1527	-0.0078	0.3966	
25	6.00	1.70	-0.0435	-0.0042	-0.0643	0.0965	1.5930	0.3942	-0.0021	0.1550	-0.0053	0.3931	
26	6.02	0.96	-0.0325	-0.0044	-0.0357	0.1354	1.0994	0.4315	-0.0016	0.1576	-0.0038	0.3652	
27	6.01	0.21	0.0397	-0.0044	-0.0192	-0.1108	-0.4829	0.4231	-0.0022	0.1625	-0.0052	0.3640	
28	6.02	-0.35	0.0775	-0.0034	0.0037	-0.0445	-0.0481	0.4306	-0.0021	0.1711	-0.0050	0.3973	
29	6.00	-1.34	0.1275	-0.0025	0.0287	-0.0200	0.2250	0.4672	-0.0021	0.1661	-0.0046	0.3555	
30	6.00	-2.20	0.2051	-0.0019	0.0418	-0.0095	0.2040	0.4235	-0.0022	0.1813	-0.0052	0.4281	
31	6.03	-2.99	0.2340	-0.0010	0.0740	-0.0043	0.3161	0.4656	-0.0023	0.1734	-0.0049	0.3725	
32	6.01	-3.76	0.2742	0.0006	0.1053	0.0022	0.3843	0.4299	-0.0013	0.1799	-0.0030	0.4186	
33	6.02	-4.56	0.3487	0.0018	0.1275	0.0052	0.3656	0.4987	-0.0014	0.1650	-0.0029	0.3308	
34	6.03	-5.26	0.4074	0.0031	0.1475	0.0076	0.3619	0.4636	-0.0015	0.1794	-0.0033	0.3869	
35	6.01	-6.13	0.4725	0.0035	0.1774	0.0074	0.3755	0.4822	-0.0014	0.1777	-0.0030	0.3685	
36	6.02	-6.84	0.5382	0.0037	0.2027	0.0069	0.3767	0.4683	-0.0015	0.1745	-0.0032	0.3727	
37	6.03	-7.70	0.5890	0.0031	0.2307	0.0053	0.3916	0.4460	-0.0029	0.1828	-0.0065	0.4049	
38	6.05	-8.47	0.6528	0.0033	0.2490	0.0051	0.3815	0.4826	-0.0034	0.1835	-0.0071	0.3802	
39	6.02	-9.26	0.7314	0.0031	0.2759	0.0043	0.3772	0.5279	-0.0033	0.1761	-0.0063	0.3336	
40	6.04	-10.07	0.7968	0.0031	0.2948	0.0039	0.3700	0.4871	-0.0043	0.1858	-0.0088	0.3814	
41	6.04	-10.79	0.8154	0.0043	0.3222	0.0053	0.3951	0.4670	-0.0025	0.1887	-0.0055	0.4041	
42	6.05	-11.56	0.9174	0.0049	0.3336	0.0053	0.3636	0.4792	-0.0034	0.1967	-0.0072	0.4104	
43	6.04	-12.28	0.9589	0.0066	0.3531	0.0069	0.3682	0.4648	-0.0025	0.1878	-0.0055	0.4040	
44	6.05	-13.12	1.0451	0.0080	0.3667	0.0077	0.3509	0.4690	-0.0033	0.1875	-0.0071	0.3997	
45	6.03	-13.94	1.0663	0.0108	0.3860	0.0102	0.3620	0.5056	-0.0023	0.1762	-0.0045	0.3484	
46	6.06	-14.78	1.0915	0.0179	0.3872	0.0164	0.3547	0.4708	-0.0013	0.1832	-0.0029	0.3891	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX 10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 158 0.97 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	6.05	-15.54	1.0928	0.0264	0.3935	0.0241	0.3601	0.4678	-0.0007	0.1812	-0.0015	0.3873
48	6.05	-16.38	1.0974	0.0373	0.3606	0.0340	0.3286	0.4853	0.0	0.1803	0.0	0.3715
49	6.05	-17.18	1.0903	0.0405	0.3481	0.0372	0.3193	0.4702	0.0027	0.1760	0.0057	0.3743
50	6.05	-18.04	0.9649	0.0394	0.3651	0.0409	0.3162	0.5037	0.0022	0.1714	0.0045	0.3404
51	6.06	-18.85	0.9695	0.0383	0.2753	0.0395	0.2839	0.4764	0.0043	0.1814	0.0090	0.3809
52	6.07	-19.63	0.8133	0.0263	0.2538	0.0323	0.3121	0.4628	0.0048	0.1769	0.0105	0.3823
53	6.09	-20.24	0.7430	0.0214	0.2404	0.0289	0.3235	0.4628	0.0042	0.1735	0.0091	0.3749

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	159	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	9.08	19.89	1.6009	-2.9182	-3.6700	6.0829	-0.3710	0.0543	-1.8228	
2	9.09	19.52	1.5881	-2.9122	-3.6321	6.1868	-0.3620	0.0564	-1.8338	
3	9.09	18.80	1.6105	-2.9626	-3.6544	6.3410	-0.3260	0.0368	-1.8396	
4	9.09	18.01	1.5340	-2.7055	-3.5165	6.6085	-0.2590	0.0117	-1.7637	
5	9.09	17.18	1.5091	-2.5957	-3.5342	6.9507	-0.1840	-0.0063	-1.7200	
6	9.07	16.38	1.4859	-2.6782	-3.3870	6.8245	-0.1140	-0.0097	-1.8024	
7	9.10	15.65	1.4747	-2.6165	-3.2450	6.8067	-0.1010	-0.0150	-1.7743	
8	9.07	14.91	1.4795	-2.7482	-3.0466	6.6049	-0.0460	-0.0012	-1.8575	
9	9.09	14.11	1.4867	-2.7913	-2.8838	6.3201	-0.0080	0.0070	-1.8775	
10	9.06	13.36	1.5275	-2.9614	-2.7020	6.0016	-0.0020	0.0233	-1.9387	
11	9.07	12.65	1.5238	-3.1272	-2.5047	5.6573	0.0100	0.0275	-2.0522	
12	9.06	11.81	1.5569	-3.2755	-2.3456	5.2996	0.0100	0.0356	-2.1039	
13	9.05	11.05	1.5766	-3.4311	-2.1785	4.9877	0.0210	0.0512	-2.1763	
14	9.04	10.20	1.6013	-3.5106	-2.0206	4.5777	0.0280	0.0729	-2.1924	
15	9.03	9.46	1.5947	-3.6004	-1.8256	4.2416	0.0320	0.0758	-2.2577	
16	9.04	8.63	1.6281	-3.7671	-1.6684	3.7935	0.0330	0.0905	-2.3138	
17	9.02	7.84	1.6338	-3.8361	-1.4648	3.3886	0.0280	0.1059	-2.3480	
18	9.03	7.03	1.6258	-3.8209	-1.2638	3.0312	0.0330	0.1089	-2.3502	
19	9.00	6.31	1.6637	-3.9825	-1.0696	2.5152	0.0230	0.1182	-2.3940	
20	9.01	5.46	1.6545	-3.9901	-0.9947	2.1944	0.0050	0.1340	-2.4117	
21	9.03	4.63	1.7076	-4.1384	-0.8587	1.8461	0.0040	0.1353	-2.4235	
22	9.02	3.84	1.6671	-4.1157	-0.6708	1.4471	-0.0050	0.1445	-2.4688	
23	9.00	3.09	1.7120	-4.1795	-0.5232	1.1345	-0.0020	0.1520	-2.4413	
24	9.00	2.33	1.6673	-4.1819	-0.3815	0.7540	-0.0010	0.1531	-2.5082	
25	9.02	1.56	1.6916	-4.2020	-0.3059	0.6582	0.0050	0.1626	-2.4841	
26	9.02	0.88	1.6719	-4.1754	-0.1461	0.4005	0.0110	0.1557	-2.4974	
27	9.01	0.08	1.6841	-4.2625	-0.0621	0.1709	0.0130	0.1532	-2.5310	
28	9.00	-0.72	1.6515	-4.1658	0.0313	0.0192	0.0160	0.1483	-2.5225	
29	8.99	-1.53	1.6704	-4.2123	0.1726	-0.2646	0.0280	0.1334	-2.5218	
30	9.00	-2.39	1.6249	-4.1106	0.2918	-0.5614	0.0330	0.1313	-2.5298	
31	9.02	-3.15	1.6370	-4.0725	0.3440	-0.7846	0.0390	0.1227	-2.4878	
32	9.02	-3.92	1.6550	-4.0987	0.4434	-1.1517	0.0310	0.1158	-2.4766	
33	9.02	-4.71	1.6225	-4.0512	0.6583	-1.5256	0.0330	0.1202	-2.4969	
34	9.01	-5.43	1.6112	-3.9774	0.8517	-1.8663	0.0190	0.1188	-2.4686	
35	9.03	-6.23	1.6445	-3.9241	0.9856	-2.1900	0.0020	0.1258	-2.3862	
36	9.01	-6.98	1.5908	-3.7879	1.1872	-2.6750	-0.0030	0.1238	-2.3811	
37	9.03	-7.80	1.6072	-3.8189	1.3279	-3.0569	0.0080	0.1301	-2.3761	
38	9.03	-8.62	1.6119	-3.7864	1.5067	-3.4662	0.0080	0.1446	-2.3491	
39	9.03	-9.43	1.5618	-3.5563	1.7019	-3.9604	0.0130	0.1406	-2.2771	
40	9.05	-10.18	1.5715	-3.5109	1.8491	-4.2615	0.0170	0.1409	-2.2341	
41	9.06	-10.91	1.5762	-3.3065	2.0142	-4.7297	0.0410	0.1411	-2.1485	
42	9.05	-11.67	1.5871	-3.3488	2.1347	-5.1093	0.0520	0.1519	-2.1100	
43	9.04	-12.51	1.6033	-3.2685	2.3510	-5.4881	0.0670	0.1369	-2.0386	
44	9.06	-13.28	1.5764	-3.1868	2.4965	-5.8997	0.0660	0.1291	-2.0216	
45	9.07	-14.17	1.5476	-3.0985	2.7348	-6.2375	0.0780	0.1274	-2.0021	
46	9.07	-14.95	1.5251	-3.0250	2.8539	-6.5022	0.0830	0.1242	-1.9835	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 159 0.97 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	9.05	-15.78	1.4806	-2.8337	3.0431	-6.8510	0.1240	0.1236	-1.9139
48	9.08	-16.56	1.4974	-2.9293	3.1250	-6.8327	0.1630	0.1371	-1.9562
49	9.08	-17.36	1.4979	-2.8900	3.2328	-6.7366	0.2070	0.1459	-1.9293
50	9.06	-18.25	1.5516	-3.1171	3.2970	-6.4295	0.2890	0.1895	-2.0090
51	9.09	-19.10	1.5551	-2.9110	3.5024	-6.4592	0.3510	0.1906	-1.8719
52	9.09	-19.79	1.6567	-3.1143	3.4577	-5.9297	0.4449	0.2188	-1.8798
53	9.09	-20.20	1.6591	-3.0906	3.5922	-5.9500	0.4609	0.2047	-1.8626

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 159 0.97 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	9.08	19.89	-0.9278	0.0224	-0.3022	-0.0241	0.3257	0.2510	0.0348	-0.0623	0.1386	-0.2481	
2	9.09	19.52	-0.9326	0.0222	-0.2965	-0.0238	0.3179	0.2516	0.0346	-0.0647	0.1377	-0.2570	
3	9.09	18.80	-0.9187	0.0217	-0.2959	-0.0236	0.3221	0.2600	0.0347	-0.0619	0.1334	-0.2379	
4	9.09	18.01	-0.8806	0.0208	-0.2816	-0.0236	0.3198	0.2836	0.0339	-0.0665	0.1196	-0.2343	
5	9.09	17.18	-0.8350	0.0191	-0.2690	-0.0229	0.3221	0.3058	0.0339	-0.0712	0.1108	-0.2327	
6	9.07	16.38	-0.7850	0.0209	-0.2579	-0.0267	0.3285	0.2733	0.0331	-0.0709	0.1211	-0.2595	
7	9.10	15.65	-0.7607	0.0192	-0.2494	-0.0253	0.3278	0.2708	0.0329	-0.0671	0.1217	-0.2477	
8	9.07	14.91	-0.6822	0.0209	-0.2402	-0.0307	0.3521	0.2673	0.0329	-0.0695	0.1231	-0.2601	
9	9.09	14.11	-0.6695	0.0227	-0.2255	-0.0339	0.3368	0.2779	0.0328	-0.0733	0.1101	-0.2635	
10	9.06	13.36	-0.6548	-0.0214	-0.2146	-0.0327	0.3277	0.2733	0.0329	-0.0753	0.1205	-0.2756	
11	9.07	12.65	-0.5876	0.0230	-0.2033	-0.0391	0.3460	0.2794	0.0325	-0.0774	0.1164	-0.2768	
12	9.06	11.81	-0.5290	0.0239	-0.2001	-0.0452	0.3782	0.2837	0.0322	-0.0786	0.1136	-0.2771	
13	9.05	11.05	-0.4935	0.0237	-0.1869	-0.0480	0.3788	0.2862	0.0323	-0.0793	0.1128	-0.2770	
14	9.04	10.20	-0.4591	0.0229	-0.1774	-0.0500	0.3864	0.2699	0.0319	-0.0865	0.1184	-0.3207	
15	9.03	9.46	-0.4047	0.0224	-0.1666	-0.0553	0.4115	0.2649	0.0316	-0.0870	0.1193	-0.3285	
16	9.04	8.63	-0.3871	0.0259	-0.1465	-0.0670	0.3784	0.2814	0.0314	-0.0887	0.1115	-0.3151	
17	9.02	7.84	-0.3178	0.0252	-0.1410	-0.0793	0.4436	0.2598	0.0312	-0.0888	0.1203	-0.3419	
18	9.03	7.03	-0.2768	0.0258	-0.1236	-0.0932	0.4466	0.2456	0.0311	-0.0947	0.1266	-0.3858	
19	9.00	6.31	-0.2269	0.0282	-0.1102	-0.1243	0.4857	0.2462	0.0312	-0.0947	0.1267	-0.3849	
20	9.01	5.46	-0.1985	0.0292	-0.1051	-0.1471	0.5297	0.2287	0.0314	-0.0977	0.1373	-0.4272	
21	9.03	4.63	-0.1788	0.0342	-0.0861	-0.1915	0.4814	0.2240	0.0317	-0.0977	0.1415	-0.4364	
22	9.02	3.84	-0.1666	0.0344	-0.0740	-0.2067	0.4443	0.2090	0.0318	-0.1047	0.1524	-0.5012	
23	9.00	3.09	-0.0913	0.0350	-0.0666	-0.3813	0.7297	0.1697	0.0321	-0.1040	0.1891	-0.6132	
24	9.00	2.33	-0.0513	0.0276	-0.0524	-0.5379	1.0213	0.1635	0.0322	-0.1094	0.1969	-0.6692	
25	9.02	1.56	-0.0678	0.0195	-0.0301	-0.2676	0.4438	0.1222	0.0325	-0.1111	0.2659	-0.9090	
26	9.02	0.88	-0.0275	0.0093	-0.0199	-0.3399	0.7223	0.1115	0.0324	-0.1206	0.2910	-1.0820	
27	9.01	0.08	-0.0128	0.0012	-0.0088	-0.0937	0.6848	0.0721	0.0329	-0.1244	0.4562	-1.7250	
28	9.00	-0.72	-0.0355	-0.0060	-0.0015	-0.1690	-0.0414	0.0350	0.0327	-0.1277	0.9341	-3.6496	
29	8.99	-1.53	0.0487	-0.0173	0.0192	-0.3562	0.3948	0.0580	0.0328	-0.1424	0.5663	-2.4564	
30	9.00	-2.39	0.0806	-0.0268	0.0373	-0.3324	0.4622	0.0551	0.0328	-0.1546	0.5952	-2.8065	
31	9.02	-3.15	0.0884	-0.0324	0.0504	-0.3676	0.5708	0.0465	0.0329	-0.1606	0.7085	-3.4539	
32	9.02	-3.92	0.1309	-0.0331	0.0611	-0.2532	0.4669	0.0282	0.0330	-0.1671	1.1718	-5.9256	
33	9.02	-4.71	0.1642	-0.0324	0.0789	-0.1973	0.4806	0.0203	0.0325	-0.1759	1.6032	-8.6668	
34	9.01	-5.43	0.1711	-0.0302	0.0901	-0.1765	0.5267	0.0256	0.0322	-0.1875	1.2545	-7.3269	
35	9.03	-6.23	0.2370	-0.0255	0.0933	-0.1078	0.3936	0.0052	0.0305	-0.1902	5.8740	-36.5899	
36	9.01	-6.98	0.2577	-0.0251	0.1080	-0.0974	0.4194	-0.0202	0.0288	-0.1972	-1.4280	9.7639	
37	9.03	-7.80	0.2482	-0.0254	0.1270	-0.0851	0.4257	-0.0176	0.0264	-0.2079	-1.4997	11.8162	
38	9.03	-8.62	0.3290	-0.0268	0.1423	-0.0816	0.4326	-0.0177	0.0248	-0.2207	-1.4037	12.4688	
39	9.03	-9.43	0.4145	-0.0260	0.1567	-0.0628	0.3781	-0.0504	0.0229	-0.2330	-0.4543	4.6229	
40	9.05	-10.18	0.4633	-0.0251	0.1674	-0.0543	0.3613	-0.0755	0.0216	-0.2403	-0.2867	3.1835	
41	9.06	-10.91	0.4868	-0.0245	0.1862	-0.0503	0.3825	-0.1098	0.0208	-0.2545	-0.1894	2.3186	
42	9.05	-11.67	0.5552	-0.0230	0.1950	-0.0415	0.3512	-0.1381	0.0196	-0.2619	-0.1419	1.8966	
43	9.04	-12.51	0.6276	-0.0220	0.2062	-0.0350	0.3286	-0.1304	0.0191	-0.2802	-0.1468	2.1492	
44	9.06	-13.28	0.6269	-0.0214	0.2249	-0.0341	0.3587	-0.1794	0.0178	-0.2819	-0.0995	1.5718	
45	9.07	-14.17	0.6709	-0.0211	0.2340	-0.0314	0.3489	-0.1722	0.0172	-0.2918	-0.0999	1.6950	
46	9.07	-14.95	0.7432	-0.0212	0.2321	-0.0286	0.3124	-0.2146	0.0163	-0.2907	-0.0762	1.3546	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 159 0.97 1.7 0.0 B2HOF12 0.0 0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	9.05	-15.78	0.8030	-0.0191	0.2463	-0.0238	0.3067	-0.2392	0.0151	-0.3101	-0.0633	1.2968
48	9.08	-16.56	0.8194	-0.0209	0.2629	-0.0256	0.3209	-0.1701	0.0116	-0.3104	-0.0685	1.8253
49	9.08	-17.36	0.8410	-0.0214	0.2745	-0.0255	0.3263	-0.2118	0.0110	-0.3060	-0.0519	1.4451
50	9.06	-18.25	0.8893	-0.0244	0.2780	-0.0275	0.3126	-0.1463	0.0102	-0.3021	-0.0700	2.0653
51	9.09	-19.10	0.9276	-0.0228	0.3019	-0.0246	0.3255	-0.1760	0.0114	-0.3270	-0.0650	1.8582
52	9.09	-19.79	1.0029	-0.0253	0.3011	-0.0253	0.3002	-0.2217	0.0128	-0.3156	-0.0577	1.4239
53	9.09	-20.20	0.9628	-0.0243	0.3160	-0.0252	0.3282	-0.2268	0.0147	-0.3219	-0.0650	1.4196

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		159	0.97	1.7	0.0	B2WUF12	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XLPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	9.08	19.89	-0.7680	-0.0224	-0.2801	0.0292	0.3647	0.1180	-0.0459	0.0880	-0.3893	0.7459
2	9.09	19.52	-0.8116	-0.0272	-0.2552	0.0335	0.3638	0.1115	-0.0469	0.0848	-0.4210	0.7610
3	9.09	18.80	-0.9040	-0.0375	-0.2562	0.0415	0.3277	0.1060	-0.0473	0.0803	-0.4461	0.7577
4	9.09	18.01	-0.9544	-0.0374	-0.3364	0.0392	0.3525	0.0918	-0.0464	0.0752	-0.5059	0.8191
5	9.09	17.18	-1.0672	-0.0321	-0.3887	0.0301	0.3642	0.0962	-0.0417	0.0671	-0.4339	0.6981
6	9.07	16.38	-1.0752	-0.0306	-0.4015	0.0284	0.3734	0.1647	-0.0499	0.0855	-0.3029	0.5190
7	9.10	15.65	-1.0728	-0.0128	-0.4277	0.0119	0.3986	0.0957	-0.0366	0.0772	-0.3824	0.8066
8	9.07	14.91	-1.0395	-0.0091	-0.4291	0.0008	0.4128	0.2062	-0.0395	0.0889	-0.1918	0.4312
9	9.09	14.11	-1.0423	-0.0033	-0.4187	0.0032	0.4017	0.2310	-0.0375	0.1105	-0.1710	0.4782
10	9.06	13.36	-1.0266	-0.0012	-0.4032	0.0014	0.3927	0.2337	-0.0399	0.1170	-0.1709	0.5005
11	9.07	12.65	-0.9066	-0.0023	-0.3987	0.0026	0.4397	0.3055	-0.0383	0.1217	-0.1253	0.3983
12	9.06	11.81	-0.8747	-0.0024	-0.3756	0.0027	0.4293	0.3386	-0.0350	0.1346	-0.1033	0.3976
13	9.05	11.05	-0.8664	-0.0031	-0.3525	0.0036	0.4068	0.3560	-0.0341	0.1451	-0.0957	0.4076
14	9.04	10.20	-0.7659	-0.0033	-0.3425	0.0043	0.4472	0.3725	-0.0319	0.1530	-0.0856	0.4108
15	9.03	9.46	-0.7396	-0.0034	-0.3102	0.0046	0.4195	0.4031	-0.0249	0.1559	-0.0718	0.3868
16	9.04	8.63	-0.6325	-0.0039	-0.2964	0.0062	0.4687	0.4385	-0.0249	0.1653	-0.0569	0.3770
17	9.02	7.84	-0.5893	-0.0048	-0.2667	0.0082	0.4527	0.4072	-0.0227	0.1802	-0.0557	0.4425
18	9.03	7.03	-0.5022	-0.0039	-0.2487	0.0078	0.4953	0.4497	-0.0169	0.1814	-0.0377	0.4035
19	9.00	6.31	-0.3960	-0.0040	-0.2256	0.0102	0.5698	0.5266	-0.0128	0.1749	-0.0243	0.3321
20	9.01	5.46	-0.3497	-0.0041	-0.1920	0.0119	0.5491	0.4814	-0.0100	0.1905	-0.0208	0.3957
21	9.03	4.63	-0.2860	-0.0055	-0.1646	0.0194	0.5754	0.5617	-0.0071	0.1878	-0.0127	0.3343
22	9.02	3.84	-0.2078	-0.0050	-0.1395	0.0243	0.6715	0.5542	-0.0062	0.1888	-0.0113	0.3406
23	9.00	3.09	-0.1803	-0.0052	-0.1035	0.0291	0.5761	0.5349	-0.0046	0.2065	-0.0086	0.3861
24	9.00	2.33	-0.1006	-0.0045	-0.0872	0.0452	0.8670	0.6046	-0.0036	0.2010	-0.0060	0.3324
25	9.02	1.56	-0.0296	-0.0042	-0.0621	0.1436	2.0367	0.6060	-0.0028	0.2150	-0.0046	0.3548
26	9.02	0.88	0.0020	-0.0043	-0.0414	-2.1746	-20.7168	0.6023	-0.0027	0.2202	-0.0046	0.3656
27	9.01	0.08	0.0441	-0.0044	-0.0142	-0.1009	-0.3221	0.6491	-0.0020	0.2261	-0.0031	0.3483
28	9.00	-0.72	0.1005	-0.0025	0.0050	-0.0254	0.0496	0.6681	-0.0029	0.2264	-0.0044	0.3389
29	8.99	-1.53	0.1339	-0.0026	0.0292	-0.0198	0.2182	0.6817	-0.0029	0.2358	-0.0043	0.3460
30	9.00	-2.39	0.2197	-0.0019	0.0529	-0.0089	0.2408	0.6731	-0.0026	0.2408	-0.0039	0.3577
31	9.02	-3.15	0.2441	-0.0021	0.0802	-0.0088	0.3287	0.7063	-0.0030	0.2436	-0.0043	0.3450
32	9.02	-3.92	0.2856	-0.0002	0.1190	-0.0007	0.4165	0.7003	-0.0035	0.2508	-0.0050	0.3582
33	9.02	-4.71	0.4084	-0.0004	0.1306	-0.0010	0.3198	0.7484	-0.0045	0.2459	-0.0061	0.3285
34	9.01	-5.43	0.4445	-0.0001	0.1615	-0.0003	0.3643	0.7526	-0.0052	0.2472	-0.0069	0.3284
35	9.03	-6.23	0.5255	0.0018	0.1461	0.0034	0.3732	0.7518	-0.0044	0.2599	-0.0059	0.3457
36	9.01	-6.98	0.5785	0.0029	0.2227	0.0050	0.3849	0.7324	-0.0038	0.2594	-0.0052	0.3542
37	9.03	-7.80	0.6564	0.0036	0.2443	0.0055	0.3722	0.7806	-0.0048	0.2588	-0.0061	0.3315
38	9.03	-8.62	0.6997	0.0036	0.2735	0.0051	0.3909	0.7535	-0.0043	0.2671	-0.0057	0.3544
39	9.03	-9.43	0.7452	0.0039	0.3009	0.0052	0.4038	0.7498	-0.0033	0.2609	-0.0044	0.3480
40	9.05	-10.18	0.8330	0.0044	0.3127	0.0053	0.3753	0.7507	-0.0032	0.2660	-0.0043	0.3544
41	9.06	-10.91	0.8779	0.0036	0.3391	0.0041	0.3863	0.7777	-0.0024	0.2674	-0.0031	0.3439
42	9.05	-11.67	0.9445	0.0046	0.3546	0.0049	0.3755	0.7843	-0.0025	0.2698	-0.0032	0.3441
43	9.04	-12.51	1.0355	0.0050	0.3666	0.0048	0.3541	0.7656	-0.0017	0.2723	-0.0023	0.3557
44	9.06	-13.28	1.0648	0.0055	0.3890	0.0052	0.3653	0.7326	-0.0015	0.2780	-0.0021	0.3795
45	9.07	-14.17	1.1182	0.0074	0.4625	0.0066	0.3599	0.7809	-0.0015	0.2705	-0.0020	0.3464
46	9.07	-14.95	1.1480	0.0156	0.3998	0.0136	0.3483	0.7754	-0.0024	0.2718	-0.0031	0.3505

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 159 0.97 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 B2WUF12 0.0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
47	9.05	-15.78	1.1372	0.0239	0.3970	0.0211	0.3491	0.7804	-0.0017	0.2630	-0.0022	0.3371
48	9.08	-16.56	1.1448	0.0352	0.3677	0.0307	0.3212	0.7525	-0.0024	0.2742	-0.0032	0.3644
49	9.08	-17.36	1.0747	0.0409	0.3420	0.0381	0.3182	0.7546	-0.0023	0.2731	-0.0031	0.3620
50	9.06	-18.25	0.9935	0.0403	0.2558	0.0406	0.2977	0.7923	-0.0004	0.2746	-0.0006	0.3466
51	9.09	-19.10	0.9737	0.0403	0.2807	0.0414	0.2882	0.7881	0.0028	0.2637	0.0036	0.3346
52	9.09	-19.79	0.7894	0.0210	0.2407	0.0267	0.3050	0.7690	0.0049	0.2671	0.0064	0.3474
53	9.09	-20.20	0.7351	0.0201	0.2489	0.0273	0.3387	0.7806	0.0068	0.2629	0.0088	0.3368

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 160 0.97 1.7										0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP								
1	12.17	19.77	2.3213	-3.9177	-3.7232	5.6704	-0.3470	0.0841	-1.6877								
2	12.15	19.56	2.3358	-4.0380	-3.6844	5.7511	-0.3380	0.0663	-1.7288								
3	12.15	18.77	2.3174	-4.0332	-3.6059	5.5952	-0.3150	0.0647	-1.7404								
4	12.16	18.00	2.2827	-3.9327	-3.5808	5.6581	-0.2850	0.0585	-1.7228								
5	12.14	17.14	2.1957	-3.6589	-3.5788	6.2852	-0.1840	0.0258	-1.6664								
6	12.13	16.35	2.2263	-3.9437	-3.4040	6.2843	-0.1100	0.0167	-1.7714								
7	12.15	15.61	2.1501	-3.7921	-3.2509	6.2900	-0.0900	0.0111	-1.7637								
8	12.14	14.84	2.1404	-3.9565	-3.0241	6.0955	-0.0480	0.0231	-1.8484								
9	12.11	14.14	2.1401	-4.1120	-2.8233	5.8774	0.0040	0.0292	-1.9214								
10	12.10	13.33	2.1079	-4.3339	-2.7204	5.6174	0.0250	0.0527	-1.9991								
11	12.08	12.58	2.1363	-4.4047	-2.5476	5.3004	0.0580	0.0640	-2.0618								
12	12.09	11.75	2.1389	-4.5853	-2.3517	4.9581	0.0670	0.0700	-2.1437								
13	12.09	10.99	2.1832	-4.7623	-2.1163	4.5556	0.0560	0.0923	-2.1813								
14	12.07	10.18	2.1960	-4.8582	-1.9471	4.1298	0.0560	0.0947	-2.2123								
15	12.06	9.37	2.2512	-5.0504	-1.7711	3.6713	0.0520	0.0944	-2.2434								
16	12.05	8.55	2.2494	-5.1069	-1.5632	3.3473	0.0680	0.0846	-2.2703								
17	12.05	7.77	2.2620	-5.1375	-1.3536	2.9329	0.0610	0.0755	-2.2712								
18	12.05	6.98	2.2615	-5.2578	-1.2882	2.6864	0.0490	0.0813	-2.3249								
19	12.04	6.24	2.2607	-5.3287	-1.1251	2.2730	0.0440	0.0856	-2.3571								
20	12.04	5.35	2.2911	-5.4422	-0.9476	1.8525	0.0500	0.0753	-2.3754								
21	12.04	4.57	2.3049	-5.5246	-0.7593	1.4570	0.0380	0.0855	-2.3969								
22	12.05	3.74	2.3135	-5.5366	-0.6177	1.1298	0.0200	0.0906	-2.3932								
23	12.03	3.02	2.2630	-5.5329	-0.4205	0.8587	0.0250	0.0971	-2.4449								
24	12.02	2.23	2.3083	-5.6333	-0.4009	0.5743	0.0270	0.1051	-2.4405								
25	12.03	1.47	2.2999	-5.6115	-0.2654	0.3835	0.0300	0.1061	-2.4399								
26	12.02	0.72	2.3130	-5.6499	-0.1971	0.3519	0.0240	0.1051	-2.4427								
27	12.05	0.0	2.2904	-5.5712	-0.0780	0.2282	0.0150	0.1197	-2.4324								
28	12.04	-0.79	2.2714	-5.5856	0.0654	0.0134	0.0220	0.1210	-2.4591								
29	12.02	-1.57	2.2898	-5.6164	0.1542	-0.0769	0.0200	0.1303	-2.4528								
30	12.02	-2.36	2.2966	-5.6039	0.2463	-0.3428	0.0420	0.1238	-2.4401								
31	12.05	-3.19	2.3144	-5.6098	0.3589	-0.5954	0.0250	0.1232	-2.4239								
32	12.04	-4.00	2.2909	-5.5859	0.4999	-0.9159	0.0130	0.1243	-2.4383								
33	12.01	-4.79	2.2611	-5.5432	0.7369	-1.2346	-0.0140	0.1368	-2.4516								
34	12.02	-5.55	2.2522	-5.4568	0.8757	-1.6659	-0.0150	0.1499	-2.4229								
35	12.04	-6.35	2.2618	-5.4262	1.0269	-2.0165	-0.0260	0.1291	-2.3991								
36	12.03	-7.15	2.2350	-5.2537	1.1678	-2.4129	-0.0290	0.1297	-2.3507								
37	12.05	-7.92	2.2095	-5.1670	1.3020	-2.7167	-0.0170	0.1174	-2.3385								
38	12.07	-8.72	2.2110	-4.9962	1.5380	-3.1921	-0.0250	0.1111	-2.2597								
39	12.05	-9.51	2.2237	-4.9310	1.6254	-3.5224	-0.0270	0.1246	-2.2174								
40	12.06	-10.30	2.1943	-4.8518	1.9106	-3.9666	-0.0210	0.1132	-2.2111								
41	12.07	-11.04	2.2213	-4.7686	2.0254	-4.3541	0.0	0.1229	-2.1468								
42	12.09	-11.88	2.2242	-4.6677	2.2014	-4.7468	0.0220	0.1111	-2.0986								
43	12.08	-12.62	2.1819	-4.4615	2.4057	-5.0717	0.0360	0.1082	-2.0448								
44	12.11	-13.40	2.2603	-4.4453	2.5962	-5.4734	0.0680	0.0963	-1.9667								
45	12.11	-14.25	2.2334	-4.3366	2.6937	-5.7380	0.1220	0.1062	-1.9417								
46	12.12	-15.11	2.2527	-4.2656	2.8320	-6.0756	0.1520	0.0923	-1.8936								

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
PHI CONF L OEL1 OEL2 OEL3 OEL4 TRANSITION									
6 160 0.97 1.7 0.0 82WOF14 0.0 0 0 0 0 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CV	CLM	CLL	CAF	XCP
47	12.09	-15.86	2.1805	-4.2166	3.0232	-6.3652	0.1720	0.0903	-1.9337
48	12.13	-16.67	2.2258	-4.2970	3.1238	-6.2891	0.2060	0.1108	-1.9305
49	12.10	-17.49	2.2447	-4.2984	3.2300	-6.0108	0.2720	0.1443	-1.9321
50	12.11	-18.31	2.2087	-4.2030	3.2978	-5.7097	0.3210	0.1705	-1.9029
51	12.11	-19.18	2.2221	-4.1228	3.4603	-5.5624	0.3929	0.1889	-1.8554
52	12.11	-19.91	2.2732	-4.1644	3.6333	-5.4896	0.4419	0.1786	-1.8319

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			160	0.97	1.7	0.0	02WOF-12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	12.17	19.77	-0.8042	0.0325	-0.2600	-0.0405	0.3233	0.3508	0.0327	0.0165	0.0932	0.0471
2	12.15	19.56	-0.7916	0.0321	-0.2625	-0.0405	0.3316	0.3168	0.0328	0.0215	0.1036	0.0678
3	12.15	18.77	-0.7705	0.0327	-0.2520	-0.0424	0.3271	0.3310	0.0330	0.0188	0.0996	0.0569
4	12.16	18.00	-0.7548	0.0333	-0.2474	-0.0441	0.3278	0.3511	0.0324	0.0148	0.0924	0.0422
5	12.14	17.14	-0.7160	0.0323	-0.2424	-0.0452	0.3392	0.3636	0.0322	0.0101	0.0887	0.0277
6	12.13	16.35	-0.6299	0.0338	-0.2363	-0.0536	0.3751	0.3407	0.0320	0.0141	0.0940	0.0413
7	12.15	15.61	-0.6115	0.0341	-0.2279	-0.0557	0.3726	0.3421	0.0320	0.0099	0.0936	0.0290
8	12.14	14.84	-0.5914	0.0338	-0.2136	-0.0572	0.3611	0.3269	0.0315	0.0126	0.0963	0.0384
9	12.11	14.14	-0.5223	0.0362	-0.1467	-0.0693	0.3767	0.3256	0.0316	0.0082	0.0972	0.0253
10	12.10	13.33	-0.4888	0.0369	-0.1876	-0.0756	0.3837	0.3377	0.0314	0.0029	0.0929	0.0085
11	12.08	12.58	-0.4291	0.0367	-0.1731	-0.0856	0.4033	0.3371	0.0306	-0.0002	0.0907	-0.0007
12	12.09	11.75	-0.4040	0.0366	-0.1599	-0.0907	0.3958	0.3491	0.0306	-0.0047	0.0876	-0.0136
13	12.09	10.99	-0.3558	0.0333	-0.1617	-0.0937	0.4543	0.3501	0.0307	-0.0064	0.0878	-0.0183
14	12.07	10.18	-0.3375	0.0339	-0.1383	-0.1004	0.4096	0.3620	0.0303	-0.0124	0.0837	-0.0344
15	12.06	9.37	-0.2971	0.0323	-0.1244	-0.1088	0.4187	0.3260	0.0303	-0.0067	0.0929	-0.0207
16	12.05	8.55	-0.2152	0.0342	-0.1141	-0.1591	0.5302	0.3302	0.0303	-0.0166	0.0919	-0.0504
17	12.05	7.77	-0.1754	0.0353	-0.1051	-0.2012	0.5995	0.3133	0.0301	-0.0177	0.0960	-0.0564
18	12.05	6.98	-0.1788	0.0368	-0.0935	-0.2061	0.5228	0.2995	0.0302	-0.0210	0.1009	-0.0700
19	12.04	6.24	-0.1178	0.0378	-0.0842	-0.3212	0.7152	0.2897	0.0303	-0.0221	0.1045	-0.0764
20	12.04	5.35	-0.0823	0.0394	-0.0568	-0.4793	0.6904	0.2947	0.0303	-0.0293	0.1029	-0.0993
21	12.04	4.57	-0.0339	0.0444	-0.0545	-1.3095	1.6075	0.2826	0.0305	-0.0291	0.1067	-0.1019
22	12.05	3.74	-0.0313	0.0467	-0.0456	-1.4917	1.4578	0.2436	0.0307	-0.0318	0.1262	-0.1307
23	12.03	3.02	0.0224	0.0421	-0.0428	1.8814	-1.9123	0.2405	0.0312	-0.0415	0.1297	-0.1724
24	12.02	2.23	-0.0062	0.0319	-0.0164	-5.1523	2.6397	0.1903	0.0319	-0.0420	0.1679	-0.2206
25	12.03	1.47	0.0398	0.0199	-0.0176	0.5012	-0.4432	0.1974	0.0330	-0.0552	0.1674	-0.2798
26	12.02	0.72	0.0291	0.0079	-0.0105	0.2731	-0.3609	0.2013	0.0337	-0.0646	0.1674	-0.3210
27	12.05	0.0	-0.0327	-0.0005	-0.0027	0.0168	0.0825	0.1591	0.0339	-0.0744	0.2133	-0.4675
28	12.04	-0.79	-0.0142	-0.0108	0.0087	0.7604	-0.6104	0.1476	0.0341	-0.0844	0.2313	-0.5719
29	12.02	-1.57	0.0096	-0.0235	0.0080	-2.4527	0.8332	0.1512	0.0346	-0.0952	0.2288	-0.6297
30	12.02	-2.36	0.0105	-0.0372	0.0330	-3.5470	3.1627	0.1501	0.0339	-0.1104	0.2258	-0.7354
31	12.05	-3.19	0.0313	-0.0448	0.0339	-1.4327	1.0840	0.1348	0.0339	-0.1173	0.2518	-0.8700
32	12.04	-4.00	0.0470	-0.0469	0.0482	-0.9577	1.0247	0.1265	0.0333	-0.1240	0.2636	-0.9806
33	12.01	-4.79	0.0586	-0.0439	0.0473	-0.7490	0.8076	0.0930	0.0332	-0.1268	0.3575	-1.3636
34	12.02	-5.55	0.0851	-0.0403	0.0680	-0.4735	0.7997	0.1072	0.0323	-0.1331	0.3013	-1.2414
35	12.04	-6.35	0.1265	-0.0382	0.0674	-0.3023	0.5332	0.0815	0.0320	-0.1374	0.3926	-1.6864
36	12.03	-7.15	0.1681	-0.0372	0.0825	-0.2213	0.4909	0.1350	0.0302	-0.1541	0.2237	-1.1416
37	12.05	-7.92	0.2266	-0.0351	0.0994	-0.1551	0.4387	0.0912	0.0278	-0.1614	0.3048	-1.7699
38	12.07	-8.72	0.2746	-0.0328	0.1087	-0.1194	0.3958	0.0945	0.0262	-0.1743	0.2772	-1.8446
39	12.05	-9.51	0.2650	-0.0334	0.1241	-0.1260	0.4683	0.1005	0.0243	-0.1875	0.2422	-1.8658
40	12.06	-10.30	0.3648	-0.0340	0.1288	-0.0933	0.3529	0.0643	0.0228	-0.1961	0.3553	-3.0509
41	12.07	-11.04	0.3951	-0.0369	0.1492	-0.0934	0.3775	0.0720	0.0211	-0.2119	0.2930	-2.9432
42	12.09	-11.88	0.4495	-0.0361	0.1665	-0.0803	0.3712	-0.0266	0.0195	-0.2227	-0.7348	8.3746
43	12.08	-12.62	0.5039	-0.0364	0.1775	-0.0723	0.3523	-0.0596	0.0190	-0.2331	-0.3187	3.9121
44	12.11	-13.40	0.5388	-0.0368	0.1921	-0.0684	0.3566	-0.0825	0.0193	-0.2443	-0.2339	2.9623
45	12.11	-14.25	0.6114	-0.0324	0.2100	-0.0531	0.3435	-0.1298	0.0186	-0.2744	-0.1433	2.1144
46	12.12	-15.11	0.6776	-0.0282	0.2219	-0.0416	0.3275	-0.1637	0.0185	-0.2804	-0.1133	1.7132

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 160 0.97 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XC PF1	YCPF1	CNF2	CH2	CB2	XC PF2	YCPF2
47	12.09	-15.86	0.7553	-0.0287	0.2292	-0.0381	0.3034	-0.1449	0.0161	-0.2817	-0.1111	1.9447
48	12.13	-16.67	0.7426	-0.0298	0.2466	-0.0402	0.3321	-0.0925	0.0135	-0.2853	-0.1459	3.0846
49	12.10	-17.49	0.7873	-0.0318	0.2491	-0.0404	0.3165	-0.1053	0.0131	-0.2869	-0.1244	2.7254
50	12.11	-18.31	0.7251	-0.0337	0.2649	-0.0465	0.3653	-0.0577	0.0122	-0.2771	-0.2114	4.8029
51	12.11	-19.18	0.8602	-0.0337	0.2626	-0.0392	0.3052	-0.1093	0.0144	-0.2875	-0.1322	2.6308
52	12.11	-19.91	0.8471	-0.0343	0.2826	-0.0405	0.3336	-0.1080	0.0146	-0.2881	-0.1352	2.6684

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			160		0.97 1.7		0.0 82WOF12		0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCFF3	YCFF3	CNF4	CH4	CB4	XCFF4	YCFF4		
1	12.17	19.77	-0.8163	-0.0242	-0.3198	0.0296	0.3918	0.1962	-0.0448	0.1016	-0.2286	0.5177		
2	12.15	19.56	-0.8770	-0.0311	-0.3144	0.0355	0.3585	0.2119	-0.0472	0.1035	-0.2227	0.4885		
3	12.15	18.77	-0.9138	-0.0367	-0.3121	0.0402	0.3415	0.1987	-0.0472	0.1108	-0.2378	0.5577		
4	12.16	18.00	-0.9068	-0.0367	-0.3307	0.0405	0.3046	0.1995	-0.0461	0.1077	-0.2310	0.5397		
5	12.14	17.14	-1.1165	-0.0331	-0.3696	0.0296	0.3490	0.1803	-0.0426	0.1065	-0.2365	0.5906		
6	12.13	16.35	-1.0859	-0.0299	-0.4177	0.0275	0.3847	0.2296	-0.0513	0.1310	-0.2234	0.5706		
7	12.15	15.61	-1.1254	-0.0168	-0.4292	0.0150	0.3814	0.2096	-0.0426	0.1241	-0.2034	0.5923		
8	12.14	14.84	-1.0686	-0.0091	-0.4344	0.0086	0.4065	0.2773	-0.0412	0.1350	-0.1485	0.4868		
9	12.11	14.14	-1.0867	-0.0029	-0.4267	0.0027	0.3927	0.3682	-0.0403	0.1478	-0.1095	0.4014		
10	12.10	13.33	-1.0287	-0.0006	-0.4207	0.0006	0.4089	0.4066	-0.0386	0.1630	-0.0950	0.4008		
11	12.08	12.58	-0.9734	-0.0018	-0.3990	0.0018	0.4099	0.4668	-0.0375	0.1759	-0.0803	0.3769		
12	12.09	11.75	-0.8917	-0.0029	-0.3878	0.0033	0.4349	0.4766	-0.0355	0.1873	-0.0745	0.3930		
13	12.09	10.99	-0.8255	-0.0030	-0.3674	0.0036	0.4450	0.4773	-0.0332	0.1925	-0.0695	0.4034		
14	12.07	10.18	-0.7748	-0.0043	-0.3446	0.0055	0.4419	0.5227	-0.0294	0.1965	-0.0562	0.3759		
15	12.06	9.37	-0.6965	-0.0044	-0.3238	0.0064	0.4649	0.5282	-0.0267	0.2052	-0.0505	0.3885		
16	12.05	8.55	-0.6430	-0.0049	-0.3003	0.0077	0.4671	0.5899	-0.0202	0.2103	-0.0343	0.3564		
17	12.05	7.77	-0.5609	-0.0053	-0.2742	0.0094	0.4888	0.6271	-0.0160	0.2070	-0.0256	0.3300		
18	12.05	6.98	-0.5301	-0.0040	-0.2466	0.0075	0.4652	0.6095	-0.0122	0.2209	-0.0200	0.3624		
19	12.04	6.24	-0.4135	-0.0039	-0.2321	0.0095	0.5612	0.6332	-0.0081	0.2251	-0.0128	0.3555		
20	12.04	5.35	-0.3558	-0.0023	-0.2001	0.0065	0.5622	0.6714	-0.0040	0.2258	-0.0060	0.3363		
21	12.04	4.57	-0.2773	-0.0017	-0.1715	0.0061	0.6184	0.6442	-0.0021	0.2388	-0.0033	0.3708		
22	12.05	3.74	-0.2207	-0.0021	-0.1432	0.0095	0.6490	0.6912	-0.0012	0.2394	-0.0017	0.3464		
23	12.03	3.02	-0.1469	-0.0018	-0.1154	0.0126	0.7859	0.7134	-0.0000	0.2446	-0.0001	0.3429		
24	12.02	2.23	-0.0895	-0.0039	-0.0844	0.0436	0.9433	0.7461	0.0013	0.2547	0.0017	0.3414		
25	12.03	1.47	-0.0213	-0.0032	-0.0651	0.1526	3.0562	0.7772	0.0017	0.2634	0.0023	0.3389		
26	12.02	0.72	0.0100	-0.0034	-0.0363	-0.3399	-3.6268	0.8261	0.0006	0.2710	0.0007	0.3280		
27	12.05	0.0	0.0641	-0.0035	-0.0112	-0.0546	-0.1754	0.8164	-0.0004	0.2779	-0.0005	0.3404		
28	12.04	-0.79	0.1263	-0.0033	0.0112	-0.0261	0.0886	0.8759	-0.0009	0.2847	-0.0011	0.3250		
29	12.02	-1.57	0.1246	-0.0033	0.0441	-0.0269	0.3541	0.8809	-0.0027	0.3001	-0.0031	0.3407		
30	12.02	-2.36	0.1802	-0.0044	0.0714	-0.0244	0.3965	0.9289	-0.0033	0.3070	-0.0036	0.3305		
31	12.05	-3.19	0.2850	-0.0035	0.0943	-0.0123	0.3263	0.9796	-0.0051	0.3057	-0.0052	0.3121		
32	12.04	-4.00	0.3082	-0.0022	0.1334	-0.0073	0.4328	0.9778	-0.0055	0.3124	-0.0057	0.3195		
33	12.01	-4.79	0.3927	-0.0027	0.1601	-0.0069	0.4076	0.9453	-0.0077	0.3182	-0.0082	0.3366		
34	12.02	-5.55	0.4836	-0.0005	0.1834	-0.0011	0.3804	0.9827	-0.0071	0.3163	-0.0073	0.3218		
35	12.04	-6.35	0.5630	0.0018	0.2073	0.0033	0.3682	1.0120	-0.0065	0.3175	-0.0065	0.3138		
36	12.03	-7.15	0.5751	0.0026	0.2467	0.0046	0.4290	0.9625	-0.0078	0.3298	-0.0082	0.3427		
37	12.05	-7.92	0.6545	0.0044	0.2562	0.0067	0.3914	1.0183	-0.0061	0.3158	-0.0060	0.3101		
38	12.07	-8.72	0.7376	0.0049	0.2405	0.0067	0.3938	0.9997	-0.0060	0.3250	-0.0060	0.3251		
39	12.05	-9.51	0.8320	0.0061	0.3027	0.0074	0.3639	1.0312	-0.0061	0.3231	-0.0059	0.3133		
40	12.06	-10.30	0.9045	0.0066	0.3290	0.0073	0.3637	0.9978	-0.0055	0.3371	-0.0056	0.3378		
41	12.07	-11.04	0.9763	0.0066	0.3412	0.0068	0.3495	1.0491	-0.0051	0.3262	-0.0049	0.3109		
42	12.09	-11.88	0.9906	0.0058	0.3726	0.0059	0.3761	1.0162	-0.0037	0.3425	-0.0036	0.3371		
43	12.08	-12.62	1.0251	0.0055	0.3909	0.0054	0.3813	1.0222	-0.0034	0.3400	-0.0033	0.3326		
44	12.11	-13.40	1.1022	0.0065	0.4060	0.0059	0.3683	1.0441	-0.0039	0.3476	-0.0037	0.3329		
45	12.11	-14.25	1.1525	0.0097	0.4112	0.0084	0.3568	1.0452	-0.0019	0.3474	-0.0018	0.3324		
46	12.12	-15.11	1.1697	0.0173	0.4068	0.0148	0.3477	1.0422	-0.0011	0.3399	-0.0011	0.3261		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 160 0.97 1.7				0.0	B2WQF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4	
47	12.09	-15.86	1.1942	0.0263	0.4048	0.0220	0.3390	1.0682	-0.0000	0.3331	-0.0000	0.3119	
48	12.13	-16.67	1.1786	0.0355	0.3824	0.0301	0.3245	1.0575	-0.0003	0.3399	-0.0003	0.3214	
49	12.10	-17.49	1.0852	0.0410	0.3249	0.0378	0.2994	1.0419	-0.0009	0.3489	-0.0009	0.3348	
50	12.11	-18.31	0.9679	0.0356	0.2976	0.0409	0.3075	1.0732	-0.0010	0.3371	-0.0010	0.3141	
51	12.11	-19.18	0.9558	0.0263	0.2672	0.0276	0.2796	1.0600	-0.0009	0.3397	-0.0009	0.3205	
52	12.11	-19.91	0.8425	0.0205	0.2650	0.0244	0.3145	1.0186	0.0007	0.3444	0.0007	0.3381	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	161	0.97	1.7	0.0	B2W0F12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	15.20	19.77	3.0173	-5.0851	-3.7437	4.9182	-0.3110	0.0772	-1.6853	
2	15.19	19.40	3.0694	-5.2500	-3.6782	4.9875	-0.3180	0.0604	-1.7104	
3	15.19	18.61	3.0109	-5.1071	-3.6682	5.0075	-0.2710	0.0553	-1.6462	
4	15.19	17.79	3.0409	-5.1881	-3.6135	4.9140	-0.2380	0.0585	-1.7061	
5	15.18	16.98	2.9563	-4.9487	-3.5549	5.3489	-0.1340	0.0436	-1.6740	
6	15.19	16.21	2.9437	-5.0331	-3.4305	5.5825	-0.0480	0.0189	-1.7098	
7	15.16	15.44	2.8415	-4.9070	-3.3218	5.7533	0.0160	0.0178	-1.7269	
8	15.17	14.67	2.8698	-5.0516	-3.2182	5.5793	0.0660	0.0198	-1.7603	
9	15.11	13.88	2.7240	-5.3835	-2.9220	5.5926	0.1000	0.0350	-1.9763	
10	15.12	13.16	2.7638	-5.5042	-2.6854	5.2084	0.1160	0.0345	-1.9915	
11	15.11	12.33	2.8834	-5.6616	-2.4711	4.6423	0.0760	0.0438	-1.9635	
12	15.13	11.61	2.8878	-5.7807	-2.2473	4.2431	0.0970	0.0554	-2.0018	
13	15.11	10.81	2.8423	-5.9560	-2.0056	3.9267	0.0980	0.0731	-2.0592	
14	15.10	10.00	2.9355	-6.1415	-1.9417	3.5603	0.1200	0.0704	-2.0921	
15	15.07	9.25	2.9108	-6.1789	-1.7215	3.1100	0.1110	0.0853	-2.1227	
16	15.09	8.40	2.9185	-6.3026	-1.5431	2.8222	0.1160	0.0924	-2.1595	
17	15.08	7.56	2.9319	-6.4654	-1.4091	2.5257	0.1390	0.1134	-2.2052	
18	15.06	6.79	2.9408	-6.6008	-1.2078	2.1489	0.1190	0.1256	-2.2446	
19	15.05	6.02	2.9529	-6.6467	-0.9910	1.7203	0.0730	0.1151	-2.2509	
20	15.07	5.13	2.9595	-6.7170	-0.8048	1.2647	0.0760	0.1224	-2.2636	
21	15.05	4.41	2.9561	-6.7312	-0.6707	1.0160	0.0940	0.1140	-2.2771	
22	15.06	3.57	2.9256	-6.7745	-0.6096	0.8325	0.1200	0.1261	-2.3156	
23	15.06	2.85	2.9546	-6.8571	-0.5311	0.5666	0.0970	0.1272	-2.3208	
24	15.06	2.01	2.9693	-6.9267	-0.3824	0.4343	0.0690	0.1327	-2.3328	
25	15.05	1.28	2.9639	-6.8981	-0.2495	0.3493	0.0630	0.1344	-2.3274	
26	15.05	0.53	2.9600	-6.9546	-0.1559	0.2592	0.0500	0.1381	-2.3338	
27	15.05	-0.23	2.9413	-6.9145	-0.1222	0.1871	0.0130	0.1300	-2.3508	
28	15.02	-1.04	2.9628	-6.9946	-0.0974	0.2370	0.0220	0.1176	-2.3608	
29	15.04	-1.77	2.9394	-6.8988	0.1017	0.1096	-0.0050	0.0969	-2.3470	
30	15.02	-2.63	2.9312	-6.8913	0.1548	-0.1077	-0.0040	0.0859	-2.3510	
31	15.02	-3.46	2.9241	-6.9954	0.3232	-0.4354	-0.0080	0.0687	-2.3923	
32	14.99	-4.24	2.9119	-7.0193	0.4954	-0.7786	-0.0210	0.0664	-2.4105	
33	15.01	-4.97	2.9321	-6.9986	0.6454	-1.0172	-0.0480	0.0716	-2.3869	
34	15.03	-5.76	2.9134	-6.8424	0.8618	-1.4415	-0.0880	0.0757	-2.3486	
35	15.01	-6.55	2.8954	-6.7442	1.0487	-1.8331	-0.1000	0.0746	-2.3293	
36	15.01	-7.41	2.8750	-6.5957	1.2508	-2.2881	-0.0970	0.0834	-2.2941	
37	15.06	-8.19	2.8696	-6.4662	1.4695	-2.6102	-0.1080	0.0948	-2.2533	
38	15.06	-8.98	2.8890	-6.3433	1.5559	-2.9042	-0.0800	0.0828	-2.1957	
39	15.05	-9.75	2.8627	-6.2245	1.6582	-3.2093	-0.0370	0.0818	-2.1743	
40	15.05	-10.58	2.8204	-6.1723	1.8101	-3.6469	-0.0360	0.0891	-2.1884	
41	15.11	-11.27	2.9102	-6.0380	2.0758	-4.0540	-0.0360	0.0869	-2.0748	
42	15.08	-12.11	2.8191	-5.8355	2.3323	-4.4431	-0.0490	0.0955	-2.0700	
43	15.13	-12.84	2.8568	-5.6063	2.5385	-4.7797	-0.0300	0.0823	-1.9624	
44	15.11	-13.69	2.7675	-5.5693	2.7196	-5.3336	-0.0200	0.0800	-2.0124	
45	15.14	-14.50	2.9039	-5.2933	2.9328	-5.2468	0.0210	0.0735	-1.8228	
46	15.12	-15.36	2.8895	-5.1782	3.0556	-5.3347	0.0710	0.0763	-1.7921	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 161 0.97 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	15.14	-16.09	2.9574	-5.3392	3.1368	-5.4244	0.1290	0.0829	-1.8054		
48	15.13	-16.94	2.9728	-5.2888	3.2407	-5.0619	0.2210	0.0933	-1.7791		
49	15.15	-17.79	3.0262	-5.4875	3.1985	-4.7528	0.3120	0.1125	-1.8133		
50	15.14	-18.66	3.0094	-5.3910	3.3093	-4.7939	0.3820	0.1146	-1.7914		
51	15.17	-19.44	3.0208	-5.3000	3.4461	-4.6856	0.4329	0.1105	-1.7545		
52	15.16	-20.23	3.1349	-5.3777	3.7110	-4.6395	0.4649	0.1155	-1.7154		

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		161	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	15.20	19.77	-0.6153	0.0427	-0.2312	-0.0694	0.3758	0.4270	0.0301	0.0831	0.0706	0.1946
2	15.19	19.40	-0.6257	0.0432	-0.2329	-0.0690	0.3722	0.4156	0.0303	0.0866	0.0729	0.2084
3	15.19	18.61	-0.6293	0.0424	-0.2126	-0.0674	0.3378	0.4367	0.0301	0.0799	0.0690	0.1830
4	15.19	17.79	-0.5922	0.0429	-0.2100	-0.0725	0.3547	0.4138	0.0299	0.0850	0.0723	0.2054
5	15.18	16.98	-0.5270	0.0406	-0.2035	-0.0770	0.3861	0.4117	0.0300	0.0793	0.0728	0.1926
6	15.19	16.21	-0.5237	0.0418	-0.1852	-0.0798	0.3536	0.3949	0.0302	0.0796	0.0766	0.2016
7	15.16	15.44	-0.4470	0.0412	-0.1700	-0.0522	0.3804	0.4057	0.0301	0.0730	0.0742	0.1799
8	15.17	14.67	-0.4033	0.0401	-0.1540	-0.0995	0.3818	0.3793	0.0301	0.0734	0.0795	0.1935
9	15.11	13.88	-0.3820	0.0402	-0.1486	-0.1052	0.3890	0.4041	0.0302	0.0630	0.0748	0.1558
10	15.12	13.16	-0.3472	0.0396	-0.1325	-0.1141	0.3816	0.4379	0.0302	0.0578	0.0691	0.1321
11	15.11	12.33	-0.3172	0.0384	-0.1372	-0.1210	0.4325	0.4105	0.0308	0.0596	0.0751	0.1452
12	15.13	11.61	-0.2577	0.0385	-0.1190	-0.1494	0.4620	0.3847	0.0308	0.0570	0.0800	0.1482
13	15.11	10.81	-0.2267	0.0391	-0.1106	-0.1727	0.4480	0.4402	0.0312	0.0464	0.0710	0.1054
14	15.10	10.00	-0.1233	0.0371	-0.0990	-0.3008	0.8028	0.3784	0.0309	0.0509	0.0816	0.1345
15	15.07	9.25	-0.1664	0.0368	-0.0749	-0.2211	0.4504	0.3858	0.0302	0.0444	0.0784	0.1150
16	15.09	8.40	-0.0953	0.0356	-0.0656	-0.3740	0.6889	0.3777	0.0302	0.0428	0.0801	0.1133
17	15.08	7.56	-0.0275	0.0345	-0.0582	-1.2543	2.1150	0.3821	0.0299	0.0398	0.0782	0.1043
18	15.06	6.79	-0.0228	0.0378	-0.0400	-1.6576	1.7543	0.3578	0.0295	0.0395	0.0824	0.1102
19	15.05	6.02	-0.0119	0.0438	-0.0542	-3.6800	4.5517	0.3564	0.0302	0.0388	0.0848	0.1088
20	15.07	5.13	0.0346	0.0442	-0.0273	1.2787	-0.7882	0.3530	0.0298	0.0338	0.0844	0.0956
21	15.05	4.41	0.0960	0.0412	-0.0074	0.4291	-0.0772	0.3153	0.0300	0.0292	0.0951	0.0926
22	15.06	3.57	0.1380	0.0315	0.0112	0.2286	0.0810	0.2808	0.0302	0.0220	0.1077	0.0783
23	15.06	2.85	0.1294	0.0247	0.0136	0.1908	0.1052	0.3041	0.0307	0.0084	0.1011	0.0275
24	15.06	2.01	0.0940	0.0197	0.0038	0.2101	0.0407	0.3455	0.0315	-0.0043	0.0911	-0.0126
25	15.05	1.28	0.0797	0.0059	0.0087	0.0740	0.1086	0.3239	0.0316	-0.0158	0.0975	-0.0489
26	15.05	0.53	0.0055	-0.0004	0.0101	-0.0818	1.8423	0.3330	0.0321	-0.0253	0.0965	-0.0760
27	15.05	-0.23	-0.0407	-0.0055	-0.0005	0.1351	0.0113	0.3515	0.0324	-0.0385	0.0923	-0.1096
28	15.02	-1.04	-0.0302	-0.0227	0.0054	0.7515	-0.1800	0.3007	0.0327	-0.0488	0.1087	-0.1621
29	15.04	-1.77	-0.1162	-0.0303	0.0095	0.2611	-0.0816	0.2865	0.0332	-0.0605	0.1158	-0.2111
30	15.02	-2.63	-0.0630	-0.0406	0.0073	0.6451	-0.1160	0.2691	0.0330	-0.0743	0.1226	-0.2762
31	15.02	-3.46	-0.0409	-0.0506	0.0196	1.2369	-0.4785	0.2523	0.0331	-0.0804	0.1314	-0.3188
32	14.99	-4.24	-0.0611	-0.0526	0.0282	0.8607	-0.4622	0.2314	0.0330	-0.0857	0.1426	-0.3703
33	15.01	-4.97	-0.0532	-0.0516	0.0237	0.9707	-0.4450	0.2384	0.0335	-0.0951	0.1407	-0.3992
34	15.03	-5.76	-0.0140	-0.0447	0.0178	3.1959	-1.2739	0.2184	0.0336	-0.0977	0.1540	-0.4475
35	15.01	-6.55	-0.0411	-0.0372	0.0331	0.9049	-0.8055	0.2365	0.0326	-0.1043	0.1380	-0.4410
36	15.01	-7.41	0.0508	-0.0352	0.0304	-0.6938	0.7663	0.2187	0.0313	-0.1128	0.1431	-0.5159
37	15.06	-8.19	0.0550	-0.0349	0.0585	-0.6344	1.0641	0.2141	0.0295	-0.1225	0.1378	-0.5724
38	15.06	-8.98	0.1512	-0.0388	0.0758	-0.2506	0.5012	0.2227	0.0266	-0.1416	0.1194	-0.6358
39	15.05	-9.75	0.2164	-0.0397	0.1008	-0.1834	0.4658	0.1986	0.0242	-0.1555	0.1218	-0.7831
40	15.05	-10.58	0.2707	-0.0427	0.1213	-0.1577	0.4481	0.1944	0.0220	-0.1686	0.1131	-0.8674
41	15.11	-11.27	0.3152	-0.0407	0.1214	-0.1292	0.3852	0.1850	0.0210	-0.1763	0.1138	-0.9533
42	15.08	-12.11	0.3107	-0.0405	0.1299	-0.1303	0.4182	0.1722	0.0197	-0.1875	0.1147	-1.0890
43	15.13	-12.84	0.3091	-0.0411	0.1454	-0.1329	0.4703	0.1249	0.0185	-0.2030	0.1481	-1.6260
44	15.11	-13.69	0.3896	-0.0433	0.1577	-0.1111	0.4048	0.1251	0.0178	-0.2055	0.1423	-1.6428
45	15.14	-14.50	0.3862	-0.0432	0.1668	-0.1119	0.4318	0.0678	0.0170	-0.2292	0.2514	-3.3807
46	15.12	-15.36	0.4367	-0.0440	0.1832	-0.1008	0.4195	-0.0041	0.0140	-0.2306	-3.4262	56.2601

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6																			
6		161 0.97 1.7		PHI 0.0		CONF BZMOF12		L 0.0		DEL1 0		DEL2 0		DEL3 0		DEL4 0		TRANSITION FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	MLPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2							
47	15.14	-16.09	0.5546	-0.0451	0.1965	-0.0814	0.3543	0.0007	0.0123	-0.2402	17.6397	-343.2380							
48	15.13	-16.94	0.5865	-0.0437	0.2030	-0.0745	0.3462	0.0055	0.0130	-0.2576	2.3723	-46.8486							
49	15.15	-17.79	0.6454	-0.0414	0.2243	-0.0642	0.3476	0.0550	0.0129	-0.2479	0.2354	-4.5086							
50	15.14	-18.66	0.7048	-0.0396	0.2447	-0.0562	0.3473	0.0343	0.0141	-0.2525	0.4110	-7.3636							
51	15.17	-19.44	0.7708	-0.0385	0.2474	-0.0500	0.3210	0.0288	0.0136	-0.2534	0.4721	-8.7987							
52	15.16	-20.23	0.7949	-0.0409	0.2622	-0.0515	0.3298	-0.0023	0.0141	-0.2644	-6.1511	114.9854							

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH AX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 161 0.97 1.7 0.0 B2WOF12 0.0 U U U U FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPE3	YCPE3	CNF4	CH4	CH4	XCPE4	YCPE4
1	15.20	19.77	-0.8834	-0.0214	-0.3095	0.0242	0.3503	0.3422	-0.0540	0.1512	-0.1579	0.4419
2	15.19	19.40	-0.8439	-0.0225	-0.3214	0.0267	0.3808	0.3088	-0.0527	0.1554	-0.1707	0.5032
3	15.19	18.61	-0.9218	-0.0324	-0.3200	0.0351	0.3471	0.3667	-0.0553	0.1512	-0.1509	0.4123
4	15.19	17.79	-0.9438	-0.0374	-0.3271	0.0396	0.3466	0.4023	-0.0555	0.1589	-0.1379	0.3948
5	15.18	16.98	-1.0889	-0.0370	-0.3814	0.0340	0.3503	0.3745	-0.0537	0.1611	-0.1435	0.4301
6	15.19	16.21	-1.1789	-0.0295	-0.4128	0.0250	0.3502	0.4456	-0.0555	0.1672	-0.1245	0.3752
7	15.16	15.44	-1.1525	-0.0117	-0.4477	0.0102	0.3885	0.3895	-0.0459	0.1782	-0.1178	0.4574
8	15.17	14.67	-1.1560	-0.0066	-0.4416	0.0058	0.3820	0.4596	-0.0429	0.1836	-0.0934	0.3996
9	15.11	13.88	-1.1287	-0.0019	-0.4419	0.0017	0.3915	0.5608	-0.0421	0.1989	-0.0751	0.3546
10	15.12	13.16	-1.0482	-0.0024	-0.4250	0.0023	0.4054	0.5975	-0.0384	0.2062	-0.0643	0.3451
11	15.11	12.33	-0.9748	-0.0023	-0.4090	0.0024	0.4196	0.5550	-0.0373	0.2104	-0.0672	0.3792
12	15.13	11.61	-0.9028	-0.0040	-0.3863	0.0044	0.4279	0.6110	-0.0342	0.2177	-0.0560	0.3563
13	15.11	10.81	-0.8356	-0.0061	-0.3712	0.0073	0.4442	0.6321	-0.0303	0.2249	-0.0480	0.3558
14	15.10	10.00	-0.8148	-0.0063	-0.3442	0.0077	0.4224	0.6840	-0.0261	0.2371	-0.0381	0.3467
15	15.07	9.25	-0.7152	-0.0069	-0.3202	0.0096	0.4477	0.6967	-0.0218	0.2421	-0.0313	0.3476
16	15.09	8.40	-0.6561	-0.0062	-0.2574	0.0095	0.4533	0.7279	-0.0179	0.2482	-0.0247	0.3410
17	15.08	7.56	-0.5730	-0.0062	-0.2842	0.0108	0.4960	0.7915	-0.0135	0.2500	-0.0171	0.3159
18	15.06	6.79	-0.4980	-0.0059	-0.2493	0.0118	0.5007	0.7712	-0.0105	0.2656	-0.0136	0.3444
19	15.05	6.02	-0.4072	-0.0031	-0.2256	0.0077	0.5539	0.7831	-0.0096	0.2616	-0.0123	0.3341
20	15.07	5.13	-0.3188	-0.0023	-0.2005	0.0072	0.6302	0.7908	-0.0064	0.2712	-0.0081	0.3430
21	15.05	4.41	-0.2921	-0.0025	-0.1648	0.0086	0.5642	0.8401	-0.0030	0.2687	-0.0036	0.3198
22	15.06	3.57	-0.2366	-0.0026	-0.1411	0.0112	0.5965	0.8593	-0.0012	0.2819	-0.0015	0.3281
23	15.06	2.85	-0.1464	-0.0028	-0.1137	0.0195	0.7765	0.9421	-0.0005	0.2670	-0.0006	0.3047
24	15.06	2.01	-0.0982	-0.0035	-0.0785	0.0356	0.7996	0.9225	-0.0011	0.3027	-0.0012	0.3281
25	15.05	1.28	-0.0410	-0.0032	-0.0529	0.0793	1.2693	0.9517	-0.0016	0.3186	-0.0017	0.3348
26	15.05	0.53	0.0249	-0.0033	-0.0309	-0.1325	-1.2411	0.9838	-0.0024	0.3254	-0.0024	0.3308
27	15.05	-0.23	0.1032	-0.0039	-0.0082	-0.0378	-0.0796	1.0209	-0.0031	0.3224	-0.0031	0.3158
28	15.02	-1.04	0.1014	-0.0052	0.0365	-0.0513	0.3598	1.0739	-0.0019	0.3415	-0.0018	0.3180
29	15.04	-1.77	0.1487	-0.0050	0.0665	-0.0340	0.4475	1.0803	-0.0033	0.3459	-0.0031	0.3202
30	15.02	-2.63	0.2368	-0.0042	0.0893	-0.0179	0.3771	1.1203	-0.0044	0.3515	-0.0040	0.3138
31	15.02	-3.46	0.3217	-0.0015	0.1104	-0.0047	0.3432	1.1180	-0.0045	0.3623	-0.0040	0.3241
32	14.99	-4.24	0.3569	-0.0003	0.1471	-0.0008	0.4122	1.1378	-0.0055	0.3674	-0.0048	0.3229
33	15.01	-4.97	0.4325	0.0008	0.1749	0.0020	0.4044	1.1876	-0.0066	0.3657	-0.0056	0.3080
34	15.03	-5.76	0.4878	0.0017	0.2099	0.0035	0.4304	1.1594	-0.0068	0.3712	-0.0059	0.3202
35	15.01	-6.55	0.5866	0.0041	0.2316	0.0070	0.3947	1.1783	-0.0061	0.3708	-0.0052	0.3147
36	15.01	-7.41	0.6591	0.0054	0.2605	0.0082	0.3953	1.1858	-0.0062	0.3732	-0.0053	0.3147
37	15.06	-8.19	0.7584	0.0067	0.2765	0.0089	0.3651	1.1848	-0.0077	0.3794	-0.0065	0.3202
38	15.06	-8.98	0.7913	0.0068	0.3076	0.0087	0.3087	1.1990	-0.0057	0.3865	-0.0048	0.3224
39	15.05	-9.75	0.8555	0.0068	0.3217	0.0080	0.3760	1.2412	-0.0046	0.3785	-0.0037	0.3049
40	15.05	-10.58	0.9262	0.0083	0.3465	0.0090	0.3746	1.2448	-0.0052	0.3821	-0.0042	0.3069
41	15.11	-11.27	0.9930	0.0079	0.3705	0.0080	0.3731	1.2720	-0.0057	0.3811	-0.0045	0.2997
42	15.08	-12.11	1.0665	0.0074	0.3911	0.0069	0.3667	1.2769	-0.0059	0.3861	-0.0046	0.3024
43	15.13	-12.84	1.1192	0.0064	0.4074	0.0057	0.3640	1.2565	-0.0059	0.3955	-0.0047	0.3148
44	15.11	-13.69	1.1813	0.0098	0.4215	0.0083	0.3568	1.2499	-0.0054	0.3934	-0.0043	0.3147
45	15.14	-14.50	1.2209	0.0150	0.4220	0.0123	0.3457	1.2738	-0.0059	0.3969	-0.0046	0.3116
46	15.12	-15.36	1.1949	0.0282	0.4138	0.0236	0.3464	1.2684	-0.0063	0.3952	-0.0050	0.3116

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6													
6 161 0.97 1.7 0.0 BZMDF14 0.0 0 0 0 0 0 0 0													
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION													
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0													
FIXED													
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CM	CB4	XCPF4	YCPF4	
47	15.14	-16.09	1.2093	0.0366	0.3951	0.0303	0.3267	1.2970	-0.0053	0.3936	-0.0041	0.3035	
48	15.13	-16.94	1.1172	0.0431	0.3525	0.0386	0.3155	1.3136	-0.0054	0.3984	-0.0041	0.3033	
49	15.15	-17.79	0.9958	0.0404	0.2984	0.0406	0.2997	1.3241	-0.0039	0.3940	-0.0030	0.2976	
50	15.14	-18.66	0.9265	0.0249	0.2865	0.0269	0.3093	1.2867	-0.0030	0.4034	-0.0023	0.3136	
51	15.17	-19.44	0.8682	0.0195	0.2772	0.0225	0.3193	1.3138	-0.0026	0.3974	-0.0020	0.3025	
52	15.16	-20.23	0.8309	0.0185	0.2837	0.0223	0.3414	1.3250	-0.0023	0.3992	-0.0017	0.3013	

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MALH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	162	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	18.34	19.68	3.6696	-4.9315	-4.1311	4.5636	-0.2310	-0.0152	-1.3439	
2	18.35	19.63	3.7021	-4.8640	-4.1537	4.6403	-0.2260	-0.0076	-1.3138	
3	18.34	18.79	3.7472	-4.9371	-4.0452	4.5894	-0.1890	-0.0100	-1.3175	
4	18.34	18.00	3.6421	-5.0030	-3.8337	4.5513	-0.1140	-0.0101	-1.3736	
5	18.33	17.12	3.6102	-5.0983	-3.7836	4.8631	-0.0410	-0.0129	-1.4122	
6	18.32	16.32	3.5364	-4.9838	-3.6672	5.3361	0.0600	-0.0232	-1.4085	
7	18.30	15.62	3.4442	-5.0649	-3.5331	5.4523	0.1430	-0.0269	-1.4705	
8	18.30	14.79	3.4402	-4.9883	-3.3759	5.5581	0.1880	-0.0151	-1.4500	
9	18.28	14.01	3.3766	-5.0721	-3.1877	5.5026	0.2360	0.0043	-1.5022	
10	18.27	13.22	3.4371	-5.2078	-2.9361	5.0414	0.2460	0.0178	-1.5152	
11	18.26	12.50	3.5056	-5.6744	-2.7344	4.5111	0.2400	0.0189	-1.6168	
12	18.25	11.67	3.5578	-5.9808	-2.5617	4.1623	0.2500	0.0234	-1.6810	
13	18.23	10.88	3.5520	-6.2337	-2.3297	3.9225	0.2450	0.0464	-1.7550	
14	18.19	10.07	3.5477	-6.4306	-2.1434	3.6727	0.2530	0.0409	-1.8126	
15	18.17	9.28	3.5108	-6.6200	-1.9743	3.3420	0.2560	0.0439	-1.8856	
16	18.13	8.46	3.4436	-6.9888	-1.7474	3.1452	0.2550	0.0604	-2.0292	
17	18.15	7.67	3.4693	-7.1248	-1.5515	2.6730	0.2220	0.0569	-2.0536	
18	18.14	6.88	3.5044	-7.3729	-1.2618	2.1525	0.1960	0.0695	-2.1039	
19	18.14	6.08	3.5509	-7.2400	-1.0369	1.6946	0.1770	0.0517	-2.0389	
20	18.14	5.23	3.5958	-7.5018	-0.8893	1.2480	0.1120	0.0539	-2.0863	
21	18.13	4.38	3.6361	-7.8462	-0.7790	0.8266	0.1990	0.0396	-2.1578	
22	18.10	3.59	3.6826	-8.0863	-0.7660	0.7464	0.1990	0.0408	-2.1958	
23	18.10	2.88	3.6460	-8.2470	-0.6796	0.8535	0.1590	0.0605	-2.2619	
24	18.06	2.06	3.6465	-8.2557	-0.4604	0.5236	0.1210	0.0639	-2.2640	
25	18.06	1.29	3.6508	-8.2957	-0.2910	0.3863	0.0790	0.0673	-2.2723	
26	18.08	0.56	3.7184	-8.2544	-0.1521	0.2039	0.0310	0.0705	-2.2199	
27	18.07	-0.19	3.6738	-8.2929	-0.2394	0.4781	0.0290	0.0754	-2.2573	
28	18.06	-1.06	3.6501	-8.2938	-0.2344	0.6371	0.0130	0.0779	-2.2722	
29	18.06	-1.83	3.6922	-8.2707	-0.0734	0.3967	-0.0300	0.0844	-2.2400	
30	18.06	-2.63	3.6556	-8.2905	0.0799	0.2861	-0.0510	0.0738	-2.2679	
31	18.07	-3.43	3.6134	-8.1214	0.2186	0.0020	-0.0990	0.0766	-2.2476	
32	18.08	-4.30	3.5932	-7.9651	0.3775	-0.3235	-0.1200	0.0906	-2.2167	
33	18.08	-5.04	3.5412	-7.7194	0.5814	-0.7310	-0.1470	0.0807	-2.1799	
34	18.08	-5.81	3.5057	-7.6367	0.7578	-1.1339	-0.1570	0.0877	-2.1783	
35	18.09	-6.63	3.4705	-7.4454	0.9149	-1.5728	-0.1760	0.0878	-2.1453	
36	18.10	-7.45	3.4326	-7.2462	1.1737	-1.9752	-0.2170	0.0959	-2.1110	
37	18.09	-8.20	3.4503	-7.2452	1.4949	-2.5618	-0.2400	0.0867	-2.0998	
38	18.11	-8.99	3.4122	-7.1077	1.6242	-2.9408	-0.2400	0.0733	-2.0831	
39	18.13	-9.80	3.3920	-6.7925	1.7900	-3.2648	-0.2170	0.0595	-2.0025	
40	18.15	-10.55	3.3807	-6.5137	1.9529	-3.4890	-0.2090	0.0516	-1.9268	
41	18.20	-11.37	3.4193	-5.9278	2.1083	-3.8995	-0.2120	0.0678	-1.7337	
42	18.19	-12.12	3.2956	-5.7276	2.2531	-4.4632	-0.1870	0.0575	-1.7380	
43	18.20	-12.96	3.2395	-5.4002	2.5249	-4.9026	-0.2180	0.0621	-1.6670	
44	18.22	-13.74	3.2718	-5.2674	2.7504	-5.2264	-0.2030	0.0489	-1.6099	
45	18.23	-14.60	3.2786	-5.1139	2.9886	-5.5669	-0.1940	0.0259	-1.5598	
46	18.23	-15.41	3.3019	-5.1915	3.1028	-5.5737	-0.1330	0.0270	-1.5723	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 162 0.97 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	18.23	-16.25	3.3924	-5.1492	3.2434	-5.3756	-0.0630	0.0148	-1.5179
48	18.25	-16.99	3.5607	-5.4510	3.3165	-4.7360	0.0920	0.0474	-1.5309
49	18.27	-17.85	3.6904	-5.4675	3.4788	-4.6614	0.1630	0.0703	-1.4816
50	18.31	-18.68	3.7794	-5.1442	3.7002	-4.4974	0.2220	0.0777	-1.3611
51	18.31	-19.49	3.8252	-5.2393	3.8659	-4.1644	0.3210	0.0934	-1.3697
52	18.31	-20.27	3.9036	-5.1961	4.0829	-4.1562	0.3670	0.1010	-1.3311

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	162	0.97	1.7	0.0	0.2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	KCPF1	YCPF1	CNF2	CH2	CB2	KCPF2	YCPF2	
1	18.34	19.68	-0.6098	0.0552	-0.2294	-0.0905	0.3762	0.6065	0.0425	0.0345	0.0701	0.0569	
2	18.35	19.63	-0.6122	0.0553	-0.2274	-0.0903	0.3714	0.6091	0.0423	0.0381	0.0695	0.0625	
3	18.34	18.79	-0.5923	0.0559	-0.2235	-0.0943	0.3779	0.5700	0.0435	0.0270	0.0764	0.0473	
4	18.34	18.00	-0.5186	0.0546	-0.2050	-0.1052	0.3953	0.5710	0.0428	0.0310	0.0749	0.0543	
5	18.33	17.12	-0.4808	0.0544	-0.2074	-0.1131	0.4314	0.5622	0.0440	0.0203	0.0782	0.0360	
6	18.32	16.32	-0.4183	0.0547	-0.1916	-0.1307	0.4580	0.4819	0.0446	0.0256	0.0925	0.0531	
7	18.30	15.62	-0.3782	0.0540	-0.1678	-0.1427	0.4437	0.5478	0.0443	0.0068	0.0809	0.0124	
8	18.30	14.79	-0.3490	0.0522	-0.1520	-0.1495	0.4355	0.5470	0.0447	0.0065	0.0817	0.0119	
9	18.28	14.01	-0.2950	0.0515	-0.1486	-0.1747	0.5037	0.5022	0.0448	-0.0002	0.0893	-0.0005	
10	18.27	13.22	-0.3135	0.0527	-0.1299	-0.1680	0.4142	0.4810	0.0452	-0.0110	0.0939	-0.0228	
11	18.26	12.50	-0.1939	0.0433	-0.1068	-0.2233	0.5509	0.5605	0.0437	0.0028	0.0779	0.0050	
12	18.25	11.67	-0.1552	0.0393	-0.0779	-0.2535	0.5020	0.5870	0.0417	0.0157	0.0710	0.0268	
13	18.23	10.88	-0.1068	0.0416	-0.0781	-0.3894	0.7312	0.5905	0.0410	0.0200	0.0695	0.0339	
14	18.19	10.07	-0.0816	0.0390	-0.0592	-0.4779	0.7254	0.5845	0.0414	0.0204	0.0709	0.0349	
15	18.17	9.28	-0.0185	0.0345	-0.0469	-1.8645	2.5332	0.5740	0.0409	0.0198	0.0713	0.0345	
16	18.13	8.46	-0.0335	0.0480	-0.0517	-1.4326	1.5422	0.5615	0.0409	0.0134	0.0729	0.0239	
17	18.15	7.67	-0.0148	0.0547	-0.0476	-3.6987	3.2184	0.5045	0.0415	0.0115	0.0822	0.0229	
18	18.14	6.88	0.0090	0.0580	-0.0543	-6.4489	-6.0335	0.5652	0.0420	-0.0020	0.0770	-0.0037	
19	18.14	6.08	0.0030	0.0501	-0.0497	-16.6970	-16.5668	0.4861	0.0430	-0.0111	0.0884	-0.0228	
20	18.14	5.23	0.1056	0.0447	0.0088	0.4232	0.0832	0.5180	0.0416	0.0001	0.0803	0.0003	
21	18.13	4.38	0.1692	0.0327	0.0343	0.1935	0.2026	0.5255	0.0396	0.0152	0.0750	0.0290	
22	18.10	3.59	0.1778	0.0167	0.0567	0.0942	0.1192	0.5290	0.0352	0.0224	0.0666	0.0423	
23	18.10	2.88	0.1330	0.0102	0.0487	0.0771	0.3663	0.5019	0.0330	0.0253	0.0658	0.0503	
24	18.06	2.06	0.1314	0.0204	0.0259	0.1552	0.1970	0.5150	0.0340	0.0182	0.0661	0.0354	
25	18.06	1.29	0.0881	0.0130	0.0149	0.1481	0.1686	0.5106	0.0342	0.0111	0.0670	0.0217	
26	18.08	0.56	0.0363	0.0147	-0.0036	0.4663	-0.0993	0.4627	0.0352	0.0139	0.0762	0.0301	
27	18.07	-0.19	-0.0499	-0.0095	-0.0018	0.1903	-0.0355	0.4532	0.0341	-0.0057	0.0752	-0.0125	
28	18.06	-1.06	-0.0784	-0.0304	-0.0006	0.3883	0.0080	0.4551	0.0325	-0.0185	0.0714	-0.0407	
29	18.06	-1.83	-0.1030	-0.0338	-0.0141	0.3281	0.1371	0.4597	0.0326	-0.0309	0.0709	-0.0672	
30	18.06	-2.63	-0.1452	-0.0430	-0.0105	0.2564	0.0722	0.4476	0.0321	-0.0362	0.0717	-0.0809	
31	18.07	-3.43	-0.1997	-0.0456	-0.0198	0.2286	0.0994	0.4422	0.0321	-0.0457	0.0727	-0.1034	
32	18.08	-4.30	-0.1518	-0.0615	0.0077	0.4051	-0.0508	0.4173	0.0311	-0.0541	0.0745	-0.1297	
33	18.08	-5.04	-0.0999	-0.0619	0.0077	0.6195	-0.0772	0.4217	0.0306	-0.0647	0.0727	-0.1535	
34	18.08	-5.81	-0.0444	-0.0611	0.0193	0.6477	-0.2049	0.3957	0.0301	-0.0716	0.0760	-0.1809	
35	18.09	-6.63	-0.0395	-0.0586	0.0257	1.4845	-0.6516	0.3513	0.0293	-0.0767	0.0835	-0.2183	
36	18.10	-7.45	-0.0327	-0.0540	0.0328	1.6526	-1.0032	0.3440	0.0293	-0.0816	0.0851	-0.2373	
37	18.09	-8.20	-0.0488	-0.0465	0.0268	0.9527	-0.9500	0.3706	0.0295	-0.0891	0.0797	-0.2403	
38	18.11	-8.99	0.0268	-0.0480	0.0350	-1.7926	1.3071	0.3407	0.0281	-0.0951	0.0826	-0.2792	
39	18.13	-9.80	0.0992	-0.0479	0.0645	-0.4828	0.6508	0.3126	0.0298	-0.1128	0.0825	-0.3607	
40	18.15	-10.55	0.1349	-0.0447	0.0725	-0.3313	0.5378	0.3105	0.0243	-0.1235	0.0784	-0.3976	
41	18.20	-11.37	0.1786	-0.0536	0.1095	-0.3003	0.6154	0.2498	0.0214	-0.1456	0.0857	-0.5831	
42	18.19	-12.12	0.3023	-0.0611	0.1316	-0.2020	0.4354	0.2113	0.0202	-0.1556	0.0956	-0.7364	
43	18.20	-12.96	0.3146	-0.0615	0.1456	-0.1955	0.4629	0.2582	0.0188	-0.1747	0.0730	-0.6769	
44	18.22	-13.74	0.3591	-0.0611	0.1606	-0.1701	0.4471	0.2272	0.0183	-0.1815	0.0808	-0.7988	
45	18.23	-14.60	0.3918	-0.0611	0.1639	-0.1560	0.4182	0.2003	0.0175	-0.1947	0.0874	-0.9723	
46	18.23	-15.41	0.4277	-0.0604	0.1735	-0.1412	0.4057	0.2076	0.0139	-0.1994	0.0669	-0.9606	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 162 0.97 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
47	18.23	-16.25	0.4576	-0.0607	0.1862	-0.1326	0.4068	0.1750	0.0116	-0.2157	0.0663	-1.2331
48	18.25	-16.99	0.4740	-0.0590	0.1827	-0.1245	0.3855	0.1823	0.0119	-0.2155	0.0655	-1.1824
49	18.27	-17.85	0.5281	-0.0630	0.1990	-0.1193	0.3768	0.1593	0.0121	-0.2248	0.0759	-1.4113
50	18.31	-18.08	0.5295	-0.0661	0.2084	-0.1249	0.3936	0.0831	0.0122	-0.2376	0.1468	-2.8593
51	18.31	-19.49	0.5693	-0.0685	0.2158	-0.1204	0.3791	0.0446	0.0132	-0.2462	0.2959	-5.5210
52	18.31	-20.27	0.5992	-0.0676	0.2320	-0.1128	0.3871	0.0309	0.0136	-0.2568	0.4417	-8.3108

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			162		0.97		1.7	0.0	82WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4		
1	18.34	19.68	-0.8931	-0.0157	-0.3289	0.0176	0.3683	0.4288	-0.0524	0.1809	-0.1222	0.4218		
2	18.35	19.63	-0.8797	-0.0162	-0.3412	0.0185	0.3879	0.4313	-0.0513	0.1752	-0.1190	0.4062		
3	18.34	18.79	-0.9204	-0.0182	-0.3376	0.0198	0.3668	0.4263	-0.0515	0.1856	-0.1209	0.4355		
4	18.34	18.00	-0.9942	-0.0361	-0.3364	0.0363	0.3383	0.4951	-0.0550	0.1869	-0.1111	0.3774		
5	18.33	17.12	-1.0873	-0.0403	-0.3711	0.0371	0.3413	0.5136	-0.0559	0.2020	-0.1088	0.3934		
6	18.32	16.32	-1.1869	-0.0306	-0.4204	0.0258	0.3542	0.5008	-0.0540	0.1947	-0.1079	0.3887		
7	18.30	15.62	-1.1767	-0.0228	-0.4366	0.0194	0.3710	0.5582	-0.0556	0.2007	-0.0997	0.3595		
8	18.30	14.79	-1.2000	0.0029	-0.4820	-0.0025	0.4017	0.5323	-0.0431	0.2043	-0.0809	0.3837		
9	18.28	14.01	-1.1393	0.0014	-0.4726	-0.0012	0.4148	0.5898	-0.0430	0.2176	-0.0729	0.3690		
10	18.27	13.22	-1.0838	0.0006	-0.4526	-0.0006	0.4176	0.6150	-0.0405	0.2230	-0.0658	0.3626		
11	18.26	12.50	-1.0297	-0.0015	-0.4282	0.0015	0.4158	0.6563	-0.0378	0.2320	-0.0577	0.3535		
12	18.25	11.87	-0.9749	-0.0042	-0.4109	0.0043	0.4215	0.7191	-0.0351	0.2432	-0.0492	0.3406		
13	18.23	10.88	-0.8865	-0.0058	-0.3936	0.0065	0.4440	0.7542	-0.0315	0.2522	-0.0418	0.3344		
14	18.19	10.07	-0.8109	-0.0072	-0.3668	0.0089	0.4523	0.7684	-0.0271	0.2740	-0.0353	0.3566		
15	18.17	9.28	-0.7591	-0.0083	-0.3460	0.0110	0.4558	0.8192	-0.0221	0.2772	-0.0270	0.3383		
16	18.13	8.46	-0.6761	-0.0075	-0.3221	0.0112	0.4764	0.8585	-0.0170	0.2791	-0.0198	0.3251		
17	18.15	7.67	-0.6128	-0.0071	-0.2990	0.0116	0.4879	0.8548	-0.0148	0.2905	-0.0174	0.3399		
18	18.14	6.88	-0.5309	-0.0074	-0.2612	0.0139	0.4920	0.8898	-0.0152	0.2932	-0.0171	0.3295		
19	18.14	6.08	-0.4374	-0.0077	-0.2434	0.0177	0.5565	0.9210	-0.0150	0.2862	-0.0163	0.3107		
20	18.14	5.23	-0.3683	-0.0104	-0.2075	0.0282	0.5634	0.9561	-0.0086	0.3085	-0.0090	0.3227		
21	18.13	4.38	-0.3095	-0.0096	-0.1773	0.0312	0.5729	0.9774	-0.0060	0.3163	-0.0061	0.3236		
22	18.10	3.59	-0.2511	-0.0107	-0.1486	0.0426	0.5921	1.0757	-0.0016	0.3233	-0.0015	0.3006		
23	18.10	2.88	-0.1959	-0.0083	-0.1205	0.0424	0.6150	1.0809	-0.0008	0.3402	-0.0008	0.3147		
24	18.06	2.06	-0.1258	-0.0065	-0.0907	0.0521	0.7211	1.1163	-0.0003	0.3365	-0.0003	0.3014		
25	18.06	1.29	-0.0537	-0.0044	-0.0648	0.0829	1.2066	1.1285	-0.0012	0.3446	-0.0011	0.3054		
26	18.08	0.56	0.0223	-0.0034	-0.0396	-0.1524	-1.7744	1.1384	-0.0024	0.3478	-0.0022	0.3055		
27	18.07	-0.19	0.0357	-0.0046	-0.0039	-0.1288	-0.1094	1.2107	0.0005	0.3602	0.0004	0.2975		
28	18.06	-1.06	0.1159	-0.0043	0.0172	-0.0371	0.1486	1.2454	0.0051	0.3645	0.0041	0.2927		
29	18.06	-1.83	0.1210	-0.0035	0.0507	-0.0289	0.4192	1.2349	0.0078	0.3653	0.0063	0.2958		
30	18.06	-2.63	0.1936	-0.0006	0.0744	-0.0034	0.3844	1.2383	0.0108	0.3692	0.0087	0.2982		
31	18.07	-3.43	0.2727	0.0012	0.1683	0.0046	0.3974	1.2462	0.0124	0.3692	0.0099	0.2958		
32	18.08	-4.30	0.3554	0.0036	0.1346	0.0103	0.3788	1.1776	0.0233	0.3521	0.0173	0.2990		
33	18.08	-5.04	0.4338	0.0048	0.1597	0.0112	0.3680	1.2077	0.0195	0.3395	0.0161	0.2811		
34	18.08	-5.81	0.5292	0.0056	0.1897	0.0107	0.3565	1.2012	0.0205	0.3424	0.0171	0.2850		
35	18.09	-6.63	0.5233	0.0057	0.2371	0.0110	0.4530	1.1797	0.0219	0.3383	0.0186	0.2868		
36	18.10	-7.45	0.6440	0.0059	0.2576	0.0092	0.4000	1.1711	0.0238	0.3307	0.0203	0.2824		
37	18.09	-8.20	0.7333	0.0077	0.2832	0.0106	0.3863	1.2110	0.0204	0.3512	0.0169	0.2900		
38	18.11	-8.99	0.7668	0.0091	0.3098	0.0116	0.3937	1.2118	0.0208	0.3623	0.0172	0.2990		
39	18.13	-9.80	0.8532	0.0094	0.3322	0.0110	0.3893	1.1978	0.0232	0.3504	0.0194	0.2926		
40	18.15	-10.55	0.9650	0.0096	0.3454	0.0099	0.3579	1.2153	0.0240	0.3428	0.0198	0.2820		
41	18.20	-11.37	0.9978	0.0087	0.3718	0.0088	0.3726	1.1232	0.0297	0.3091	0.0264	0.2752		
42	18.19	-12.12	1.0857	0.0081	0.3873	0.0075	0.3567	1.1226	0.0296	0.3119	0.0264	0.2778		
43	18.20	-12.96	1.1474	0.0075	0.4131	0.0066	0.3601	1.0754	0.0299	0.3047	0.0278	0.2834		
44	18.22	-13.74	1.2158	0.0068	0.4314	0.0056	0.3548	1.0984	0.0315	0.3038	0.0287	0.2766		
45	18.23	-14.60	1.2543	0.0070	0.4476	0.0056	0.3569	1.1604	0.0310	0.2966	0.0267	0.2556		
46	18.23	-15.41	1.2798	0.0226	0.4232	0.0177	0.3307	1.1470	0.0303	0.3284	0.0264	0.2863		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 162 0.97 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	18.23	-16.25	1.2572	0.0342	0.4116	0.0272	0.3274	1.2072	0.0298	0.3245	0.0247	0.2688
48	18.25	-16.99	1.1108	0.0414	0.3376	0.0373	0.3040	1.3100	0.0251	0.3741	0.0192	0.2856
49	18.27	-17.85	1.0533	0.0401	0.3345	0.0381	0.3179	1.3604	0.0249	0.3796	0.0183	0.2790
50	18.31	-18.68	1.0690	0.0316	0.3248	0.0296	0.3038	1.3505	0.0234	0.3899	0.0173	0.2887
51	18.31	-19.49	0.9409	0.0182	0.3091	0.0193	0.3285	1.3959	0.0179	0.4059	0.0128	0.2907
52	18.31	-20.27	0.9348	0.0171	0.3098	0.0183	0.3314	1.4094	0.0157	0.4055	0.0112	0.2877

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	163	0.97	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	ACP	
1	21.46	19.27	4.2879	-4.4293	-4.1128	4.0541	0.0430	-0.0526	-1.0330	
2	21.45	18.97	4.3050	-4.5762	-4.2075	4.1418	0.0490	-0.0640	-1.0630	
3	21.47	18.15	4.2629	-4.4373	-4.1128	4.3221	0.1120	-0.0531	-1.0409	
4	21.46	17.39	4.1993	-4.3172	-4.1378	4.4960	0.1380	-0.0577	-1.0281	
5	21.44	16.54	4.0938	-4.2075	-3.9697	4.9836	0.2810	-0.0393	-1.0278	
6	21.43	15.77	4.0635	-4.3090	-3.8747	5.2206	0.3490	-0.0404	-1.0604	
7	21.44	14.99	4.0539	-4.3226	-3.6587	5.3512	0.4079	-0.0274	-1.0663	
8	21.39	14.23	3.9429	-4.5042	-3.5588	5.5663	0.4399	-0.0241	-1.1424	
9	21.40	13.40	3.9847	-4.8007	-3.3002	5.2352	0.4389	-0.0129	-1.2048	
10	21.34	12.63	3.8977	-5.0698	-3.0996	5.0893	0.4519	-0.0025	-1.3007	
11	21.34	11.87	3.8910	-5.1744	-2.7934	4.5477	0.4359	0.0053	-1.3298	
12	21.33	11.09	3.9688	-5.3883	-2.5686	4.1549	0.4519	0.0331	-1.3577	
13	21.31	10.30	3.9709	-5.6872	-2.4312	4.0256	0.4639	0.0434	-1.4322	
14	21.30	9.44	3.9144	-5.7431	-2.1711	3.4775	0.4679	0.0503	-1.4672	
15	21.28	8.65	3.9618	-6.0964	-1.8916	3.0321	0.4489	0.0673	-1.5368	
16	21.27	7.80	4.0466	-6.6851	-1.6851	2.5471	0.4289	0.0551	-1.6520	
17	21.27	7.00	4.1606	-6.7187	-1.4685	2.0699	0.4099	0.0730	-1.6293	
18	21.27	6.21	4.0844	-6.8800	-1.2308	1.8392	0.3989	0.0735	-1.6845	
19	21.26	5.36	4.2667	-7.3653	-1.1338	1.4263	0.3929	0.0310	-1.7262	
20	21.23	4.54	4.1943	-7.5307	-0.9324	1.0244	0.3810	0.0287	-1.7955	
21	21.18	3.74	4.1629	-7.9957	-0.9167	1.1414	0.3130	0.0218	-1.9207	
22	21.16	2.96	4.1946	-8.3170	-0.6113	0.7389	0.2780	0.0147	-1.9828	
23	21.16	2.17	4.1600	-8.2336	-0.4471	0.4600	0.2330	0.0151	-1.9793	
24	21.15	1.39	4.1794	-8.4158	-0.1940	0.1586	0.1750	0.0203	-2.0136	
25	21.13	0.66	4.3385	-8.9901	-0.1667	0.2633	0.1010	0.0028	-2.0720	
26	21.18	-0.12	4.4900	-9.0437	-0.1228	0.4229	-0.0280	-0.0075	-2.0142	
27	21.14	-0.95	4.3382	-9.0471	-0.0836	0.2462	-0.0800	0.0006	-2.0854	
28	21.15	-1.77	4.3053	-8.7711	0.0447	0.0464	-0.1460	0.0253	-2.0373	
29	21.17	-2.56	4.2386	-8.5928	0.1919	0.0643	-0.2030	0.0310	-2.0272	
30	21.16	-3.42	4.1387	-8.1108	0.3495	-0.2898	-0.2810	0.0565	-1.9598	
31	21.19	-4.22	4.0632	-7.5192	0.5115	-0.4822	-0.3300	0.0756	-1.8506	
32	21.21	-5.03	3.9915	-7.2088	0.7131	-1.0293	-0.3650	0.0849	-1.8261	
33	21.21	-5.72	3.9599	-7.1246	0.9550	-1.3490	-0.4019	0.0658	-1.7992	
34	21.21	-6.59	3.9519	-7.0094	1.0522	-1.5660	-0.4139	0.0938	-1.7737	
35	21.23	-7.39	3.9655	-6.7735	1.1846	-1.8865	-0.4019	0.1094	-1.7081	
36	21.24	-8.16	4.0228	-6.6777	1.4705	-2.2662	-0.4249	0.0933	-1.6600	
37	21.23	-8.98	3.9403	-6.2443	1.6332	-2.6734	-0.4069	0.1016	-1.5847	
38	21.27	-9.77	4.0134	-6.2006	1.8370	-2.9167	-0.4149	0.0867	-1.5450	
39	21.27	-10.58	3.9488	-5.9552	2.0742	-3.3269	-0.3999	0.0625	-1.5081	
40	21.31	-11.35	4.0090	-5.7195	2.2420	-3.5578	-0.3919	0.0645	-1.4267	
41	21.33	-12.15	3.9756	-5.3358	2.5238	-4.0912	-0.3989	0.0529	-1.3422	
42	21.34	-12.89	4.0149	-5.1509	2.7863	-4.3210	-0.3899	0.0411	-1.2829	
43	21.33	-13.70	3.9757	-5.0050	2.8882	-4.6444	-0.3720	0.0312	-1.2589	
44	21.37	-14.56	3.9601	-4.6662	3.2524	-4.9873	-0.3690	0.0154	-1.1783	
45	21.40	-15.42	4.0423	-4.4693	3.4581	-5.2094	-0.3470	0.0138	-1.1056	
46	21.38	-16.21	4.0415	-4.5212	3.5428	-4.9020	-0.2890	0.0090	-1.1187	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 163 0.97 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	21.40	-17.03	4.1022	-4.3402	3.6320	-4.7839	-0.2110	-0.0050	-1.0580		
48	21.45	-17.87	4.1769	-4.2358	3.8244	-4.6093	-0.1560	0.0077	-1.0141		
49	21.48	-18.74	4.2926	-4.1009	3.9314	-4.0601	-0.0360	0.0029	-0.9553		
50	21.46	-19.54	4.2124	-3.9147	4.1254	-4.0517	0.0470	-0.0086	-0.9493		
51	21.48	-20.18	4.2973	-4.0575	4.3215	-4.0764	0.1000	-0.0092	-0.9442		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 163 0.97 1.7			0.0	82WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CH1	CL1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	21.46	19.27	-0.4803	0.0580	-0.1942	-0.1208	0.4044	0.6084	0.0329	0.0245	0.0541	0.0402
2	21.45	19.97	-0.4869	0.0576	-0.2006	-0.1183	0.4121	0.6252	0.0329	0.0283	0.0526	0.0452
3	21.47	18.15	-0.4030	0.0580	-0.1848	-0.1439	0.4585	0.5990	0.0331	0.0189	0.0552	0.0316
4	21.46	17.39	-0.4410	0.0566	-0.1692	-0.1284	0.3835	0.5891	0.0337	0.0125	0.0573	0.0213
5	21.44	16.54	-0.3678	0.0538	-0.1624	-0.1463	0.4414	0.4633	0.0299	-0.0404	0.0645	-0.0872
6	21.43	15.77	-0.3572	0.0517	-0.1542	-0.1447	0.4317	0.3854	0.0293	-0.0425	0.0761	-0.1104
7	21.44	14.99	-0.3221	0.0511	-0.1395	-0.1586	0.4332	0.3571	0.0294	-0.0476	0.0823	-0.1332
8	21.39	14.23	-0.3295	0.0471	-0.1238	-0.1430	0.3757	0.3454	0.0296	-0.0460	0.0857	-0.1331
9	21.40	13.40	-0.2358	0.0455	-0.1170	-0.1929	0.4961	0.3405	0.0299	-0.0428	0.0878	-0.1257
10	21.34	12.63	-0.2457	0.0449	-0.1149	-0.1829	0.4679	0.3082	0.0301	-0.0456	0.0976	-0.1478
11	21.34	11.87	-0.2509	0.0424	-0.1101	-0.1690	0.4388	0.2829	0.0299	-0.0443	0.1058	-0.1565
12	21.33	11.09	-0.1753	0.0381	-0.0899	-0.2176	0.5129	0.2882	0.0304	-0.0530	0.1054	-0.1840
13	21.31	10.30	-0.1401	0.0314	-0.0651	-0.2241	0.4645	0.2929	0.0307	-0.0482	0.1049	-0.1644
14	21.30	9.44	-0.0826	0.0305	-0.0586	-0.3698	0.7097	0.2781	0.0305	-0.0545	0.1098	-0.1959
15	21.28	8.65	-0.0276	0.0297	-0.0404	-1.0759	1.6636	0.3122	0.0311	-0.0556	0.0997	-0.1782
16	21.27	7.80	0.0224	0.0290	-0.0149	1.2966	-0.6668	0.4348	0.0331	-0.0422	0.0761	-0.0970
17	21.27	7.00	0.0962	0.0286	-0.0022	0.2978	-0.0233	0.4497	0.0351	-0.0296	0.0781	-0.0659
18	21.27	6.21	0.0787	0.0269	0.0116	0.3617	0.1477	0.4031	0.0333	-0.0410	0.0826	-0.1018
19	21.26	5.36	0.1342	0.0052	0.0498	0.0391	0.3712	0.4325	0.0351	-0.0214	0.0812	-0.0496
20	21.23	4.54	0.1874	0.0036	0.0572	0.0195	0.3055	0.4353	0.0353	-0.0120	0.0811	-0.0276
21	21.18	3.74	0.1197	0.0266	0.0286	0.2222	0.2388	0.4223	0.0355	-0.0204	0.0841	-0.0484
22	21.18	2.96	0.1445	0.0202	0.0487	0.1398	0.3374	0.4894	0.0354	0.0030	0.0724	0.0061
23	21.16	2.17	0.0967	0.0383	0.0097	0.3960	0.1005	0.4363	0.0358	-0.0176	0.0820	-0.0403
24	21.15	1.39	0.1065	0.0339	-0.0098	0.3187	-0.0921	0.4662	0.0360	0.0009	0.0772	0.0019
25	21.13	0.66	0.0550	0.0195	-0.0007	0.3554	-0.0122	0.5173	0.0358	0.0266	0.0693	0.0514
26	21.18	-0.12	-0.0395	-0.0024	-0.0078	0.0620	0.1965	0.5706	0.0298	0.0589	0.0522	0.1031
27	21.14	-0.95	-0.0496	-0.0184	-0.0157	0.1847	0.1575	0.4936	0.0282	0.0689	0.0571	0.1396
28	21.15	-1.77	-0.1235	-0.0240	-0.0283	0.1947	0.2296	0.4276	0.0275	0.0719	0.0644	0.1681
29	21.17	-2.56	-0.2022	-0.0274	-0.0391	0.1357	0.1933	0.3979	0.0271	0.0674	0.0682	0.1694
30	21.16	-3.42	-0.1947	-0.0339	-0.0450	0.1743	0.2310	0.4078	0.0261	0.0535	0.0641	0.1312
31	21.19	-4.22	-0.1945	-0.0404	-0.0328	0.2077	0.1687	0.3630	0.0254	0.0481	0.0699	0.1324
32	21.21	-5.03	-0.1291	-0.0489	-0.0178	0.3787	0.1380	0.3420	0.0242	0.0356	0.0709	0.1040
33	21.21	-5.72	-0.1869	-0.0419	-0.0165	0.2244	0.0882	0.3433	0.0238	0.0254	0.0694	0.0740
34	21.21	-6.59	-0.1356	-0.0405	-0.0132	0.2990	0.0972	0.3157	0.0225	0.0184	0.0714	0.0584
35	21.23	-7.39	-0.0565	-0.0376	-0.0030	0.6654	0.0536	0.3108	0.0210	0.0058	0.0675	0.0186
36	21.24	-8.16	-0.0659	-0.0316	-0.0051	0.4794	0.0768	0.2624	0.0201	0.0074	0.0768	0.0283
37	21.23	-8.98	-0.0031	-0.0345	-0.0281	1.1432	-9.0539	0.2773	0.0187	-0.0189	0.0676	-0.0680
38	21.27	-9.77	0.0357	-0.0300	0.0168	-0.8402	0.4705	0.2569	0.0181	-0.0233	0.0706	-0.0907
39	21.27	-10.58	0.0680	-0.0318	0.0349	-0.4683	0.5126	0.2092	0.0170	-0.0326	0.0815	-0.1558
40	21.31	-11.35	0.1111	-0.0357	0.0532	-0.3213	0.4790	0.1493	0.0157	-0.0457	0.1051	-0.3064
41	21.33	-12.15	0.1805	-0.0384	0.0627	-0.2127	0.3476	0.2061	0.0145	-0.0712	0.0703	-0.3456
42	21.34	-12.89	0.1660	-0.0413	0.0832	-0.2491	0.5013	0.2209	0.0139	-0.0918	0.0629	-0.4155
43	21.33	-13.70	0.2173	-0.0448	0.0963	-0.2064	0.4432	0.1777	0.0128	-0.1059	0.0723	-0.5959
44	21.37	-14.56	0.2485	-0.0469	0.1057	-0.1889	0.4254	0.1472	0.0122	-0.1153	0.0829	-0.7836
45	21.40	-15.42	0.2760	-0.0515	0.1329	-0.1867	0.4813	0.1208	0.0118	-0.1322	0.0977	-1.0948
46	21.38	-16.21	0.3517	-0.0540	0.1397	-0.1535	0.3972	0.1060	0.0086	-0.1281	0.0811	-1.2083

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6													
PHI		CONF		L		DEL1	DEL2	DEL3	DEL4	TRANSITION			
6		163 0.97 1.7		0.0 82W0F12		0.0	0	0	0	FIXED			
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	21.40	-17.03	0.4004	-0.0577	0.1576	-0.1440	0.3936	0.0770	0.0088	-0.1397	0.1149	-1.8148	
48	21.45	-17.87	0.4151	-0.0585	0.1684	-0.1410	0.4057	0.0936	0.0086	-0.1526	0.0924	-1.6305	
49	21.48	-18.74	0.4532	-0.0618	0.1858	-0.1364	0.4100	0.0278	0.0086	-0.1555	0.3111	-5.5948	
50	21.46	-19.54	0.5052	-0.0645	0.1958	-0.1276	0.3876	0.0280	0.0091	-0.1694	0.3267	-6.0525	
51	21.48	-20.18	0.5550	-0.0658	0.2041	-0.1185	0.3678	0.0352	0.0089	-0.1772	0.2542	-5.0361	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 163 0.97 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	21.46	19.27	-1.0106	-0.0343	-0.3649	0.0340	0.3611	0.5727	-0.0575	0.2120	-0.1004	0.3702
2	21.45	18.97	-1.0309	-0.0351	-0.3576	0.0340	0.3469	0.5983	-0.0571	0.2192	-0.0954	0.3663
3	21.47	18.15	-1.0752	-0.0378	-0.3701	0.0351	0.3442	0.5759	-0.0588	0.2113	-0.1022	0.3669
4	21.46	17.39	-1.1035	-0.0394	-0.3816	0.0357	0.3458	0.5480	-0.0590	0.2232	-0.1077	0.4073
5	21.44	16.54	-1.1466	-0.0295	-0.4334	0.0246	0.3622	0.5830	-0.0573	0.2220	-0.0983	0.3807
6	21.43	15.77	-1.2279	-0.0251	-0.4465	0.0205	0.3637	0.6561	-0.0603	0.2350	-0.0919	0.3582
7	21.44	14.99	-1.2514	-0.0009	-0.4862	-0.0008	0.3865	0.6606	-0.0493	0.2259	-0.0747	0.3420
8	21.39	14.23	-1.2039	0.0019	-0.4814	-0.0016	0.3999	0.6991	-0.0437	0.2483	-0.0626	0.3552
9	21.40	13.40	-1.1737	0.0004	-0.4588	-0.0003	0.3909	0.7574	-0.0417	0.2549	-0.0550	0.3365
10	21.34	12.63	-1.0668	-0.0029	-0.4472	0.0027	0.4192	0.7856	-0.0374	0.2692	-0.0477	0.3426
11	21.34	11.87	-1.0265	-0.0053	-0.4185	0.0052	0.4077	0.8280	-0.0324	0.2768	-0.0391	0.3343
12	21.33	11.09	-0.9569	-0.0063	-0.3937	0.0066	0.4115	0.8853	-0.0322	0.2788	-0.0364	0.3149
13	21.31	10.30	-0.8623	-0.0081	-0.3849	0.0094	0.4464	0.9263	-0.0295	0.2915	-0.0318	0.3147
14	21.30	9.44	-0.7909	-0.0081	-0.3546	0.0103	0.4484	0.9055	-0.0274	0.3016	-0.0302	0.3331
15	21.28	8.65	-0.7101	-0.0097	-0.3289	0.0137	0.4632	0.9404	-0.0247	0.3091	-0.0263	0.3286
16	21.27	7.80	-0.6473	-0.0117	-0.3024	0.0181	0.4671	1.0021	-0.0216	0.3161	-0.0216	0.3155
17	21.27	7.00	-0.5750	-0.0133	-0.2745	0.0231	0.4774	1.0056	-0.0173	0.3277	-0.0172	0.3259
18	21.27	6.21	-0.4478	-0.0129	-0.2508	0.0289	0.5601	1.0372	-0.0153	0.3257	-0.0147	0.3140
19	21.26	5.36	-0.3957	-0.0138	-0.2214	0.0349	0.5996	1.0980	-0.0128	0.3397	-0.0117	0.3094
20	21.23	4.54	-0.3271	-0.0140	-0.1856	0.0429	0.5673	1.1069	-0.0078	0.3523	-0.0070	0.3183
21	21.18	3.74	-0.2180	-0.0126	-0.1643	0.0578	0.7539	1.1518	-0.0045	0.3525	-0.0039	0.3060
22	21.18	2.96	-0.1957	-0.0099	-0.1245	0.0506	0.6362	1.2119	-0.0019	0.3575	-0.0016	0.2950
23	21.16	2.17	-0.1325	-0.0085	-0.0915	0.0645	0.6910	1.1891	-0.0026	0.3619	-0.0022	0.3044
24	21.15	1.39	-0.0334	-0.0055	-0.0700	0.1661	2.0967	1.2418	-0.0015	0.3613	-0.0012	0.2909
25	21.13	0.66	-0.0375	-0.0042	-0.0334	0.1120	0.8905	1.2940	0.0013	0.3779	0.0010	0.2920
26	21.18	-0.12	0.0741	-0.0050	-0.0177	-0.0681	-0.2390	1.2545	0.0165	0.3611	0.0132	0.2879
27	21.14	-0.95	0.1161	-0.0042	-0.0172	-0.0362	0.1480	1.1787	0.0192	0.3606	0.0163	0.3059
28	21.15	-1.77	0.1572	-0.0020	0.0466	-0.0127	0.2963	1.2276	0.0208	0.3348	0.0170	0.2727
29	21.17	-2.56	0.2136	0.0005	0.0734	0.0023	0.3435	1.1576	0.0223	0.3297	0.0193	0.2848
30	21.16	-3.42	0.3036	0.0046	0.1045	0.0153	0.3441	1.0428	0.0170	0.2996	0.0163	0.2873
31	21.19	-4.22	0.3716	0.0080	0.1315	0.0217	0.3539	1.0154	0.0175	0.2749	0.0173	0.2707
32	21.21	-5.03	0.4129	0.0105	0.1691	0.0254	0.4095	0.9096	0.0144	0.2708	0.0158	0.2977
33	21.21	-5.72	0.5253	0.0104	0.1575	0.0207	0.3760	0.9573	0.0176	0.2728	0.0184	0.2850
34	21.21	-6.59	0.6141	0.0112	0.2271	0.0183	0.3698	0.9908	0.0163	0.2748	0.0164	0.2773
35	21.23	-7.39	0.6619	0.0119	0.2601	0.0180	0.3930	0.9737	0.0138	0.2749	0.0142	0.2823
36	21.24	-8.16	0.7697	0.0114	0.2835	0.0148	0.3683	1.0186	0.0134	0.2758	0.0132	0.2708
37	21.23	-8.98	0.8393	0.0093	0.3108	0.0111	0.3703	1.0090	0.0104	0.2757	0.0104	0.2733
38	21.27	-9.77	0.8795	0.0100	0.3410	0.0114	0.3677	1.0370	0.0121	0.2916	0.0117	0.2812
39	21.27	-10.58	0.9288	0.0092	0.3665	0.0099	0.3946	1.0325	0.0143	0.2906	0.0139	0.2814
40	21.31	-11.35	1.0753	0.0087	0.3740	0.0081	0.3478	1.0157	0.0073	0.2982	0.0092	0.2935
41	21.33	-12.15	1.0916	0.0074	0.4116	0.0068	0.3773	1.0127	0.0078	0.2861	0.0077	0.2825
42	21.34	-12.89	1.1998	0.0066	0.4187	0.0055	0.3490	1.0270	0.0063	0.2943	0.0061	0.2866
43	21.33	-13.70	1.2312	0.0056	0.4426	0.0045	0.3595	1.0164	0.0063	0.2980	0.0062	0.2932
44	21.37	-14.56	1.2908	0.0043	0.4637	0.0034	0.3592	1.0528	0.0061	0.2969	0.0058	0.2820
45	21.40	-15.42	1.3560	0.0042	0.4773	0.0031	0.3520	1.0335	0.0032	0.2965	0.0031	0.2869
46	21.38	-16.21	1.3246	0.0242	0.4380	0.0183	0.3306	1.0392	0.0037	0.2923	0.0036	0.2813

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 163 0.97 1.7 0.0 82WOF12 0.0 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	21.40	-17.03	1.3285	0.0334	0.4225	0.0252	0.3180	1.0859	0.0102	0.2927	0.0094	0.2695
48	21.45	-17.87	1.2780	0.0409	0.3859	0.0320	0.3020	1.0953	0.0085	0.3032	0.0078	0.2768
49	21.48	-18.74	1.1642	0.0396	0.3593	0.0340	0.3087	1.1007	0.0204	0.3132	0.0185	0.2845
50	21.46	-19.54	1.0134	0.0187	0.3378	0.0184	0.3333	1.1222	0.0210	0.3115	0.0188	0.2776
51	21.48	-20.18	1.0264	0.0162	0.3360	0.0158	0.3274	1.1689	0.0218	0.3097	0.0187	0.2650

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	164	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	19.61	0.0913	-0.0618	-3.8785	8.5875	-0.0510	0.1609	-0.6771		
2	0.01	19.48	0.1055	0.0193	-4.0452	8.0765	-0.0450	0.2142	0.1829		
3	0.01	18.72	0.0975	0.0015	-3.7039	7.9921	-0.0430	0.2131	0.0154		
4	0.01	17.82	0.1558	0.0199	-4.0221	7.8166	-0.0450	0.1909	0.1276		
5	-0.02	17.12	0.0355	-0.0057	-3.6151	7.8898	-0.0450	0.1888	-0.1606		
6	0.03	16.27	0.1900	0.1040	-3.4441	7.3775	-0.0330	0.2085	0.5474		
7	0.01	15.41	0.0243	0.1920	-3.0968	7.1211	-0.0240	0.2261	7.9004		
8	0.01	14.78	-0.0142	0.1789	-3.2364	7.0486	-0.0130	0.1554	-12.5972		
9	0.01	13.91	-0.0043	0.1300	-2.9564	6.6277	-0.0150	0.1560	-30.2372		
10	-0.01	13.21	-0.0010	0.0644	-2.7334	6.1605	-0.0040	0.1517	-64.4000		
11	-0.01	12.36	0.0143	0.0950	-2.5512	5.8383	-0.0010	0.1643	6.6420		
12	0.0	11.72	0.0301	0.0519	-2.2602	5.4440	-0.0010	0.1807	1.7229		
13	0.0	10.65	-0.0013	0.1458	-2.1761	5.2583	0.0070	0.1779	-112.1692		
14	-0.01	10.11	0.0174	0.0326	-2.0350	4.9458	0.0060	0.1852	1.8759		
15	-0.01	9.31	-0.0173	0.0442	-1.8759	4.6169	0.0130	0.1886	-5.4462		
16	0.01	8.52	0.0363	0.0252	-1.7220	4.2285	0.0090	0.1867	0.6937		
17	-0.01	7.70	0.0150	0.0350	-1.5274	3.8481	0.0110	0.1756	2.3333		
18	-0.01	6.92	0.0125	0.0235	-1.3877	3.4366	0.0190	0.1727	1.8800		
19	0.0	6.11	0.0045	0.0117	-1.1757	3.0309	0.0150	0.1818	2.6000		
20	-0.01	5.32	0.0069	-0.0207	-1.0811	2.7503	0.0170	0.1898	-2.9942		
21	0.0	4.48	0.0217	-0.0254	-0.8715	2.3039	0.0140	0.1874	-1.1696		
22	-0.01	3.71	0.0219	-0.0187	-0.8163	1.9517	0.0120	0.1872	-0.8521		
23	-0.01	2.93	0.0358	-0.0551	-0.5863	1.5758	0.0140	0.2004	-1.5397		
24	-0.01	2.20	0.0416	-0.0902	-0.4561	1.2145	0.0080	0.2016	-2.1692		
25	-0.01	1.38	0.0307	-0.0700	-0.3588	0.8552	0.0140	0.2067	-2.2795		
26	-0.01	0.68	0.0407	-0.0880	-0.1814	0.5399	0.0090	0.2171	-2.1617		
27	-0.01	-0.13	0.0461	-0.0965	-0.1405	0.2902	0.0080	0.2230	-2.0941		
28	-0.03	-0.88	0.0434	-0.0588	0.0760	-0.0904	0.0080	0.2311	-1.3539		
29	-0.03	-1.70	0.0262	-0.0607	0.1136	-0.3350	0.0100	0.2295	-2.3160		
30	-0.01	-2.51	0.0378	-0.0609	0.2032	-0.7054	0.0130	0.2370	-1.6118		
31	-0.02	-3.36	0.0344	-0.0752	0.4450	-1.0676	0.0100	0.2286	-2.1849		
32	0.0	-4.12	0.0502	-0.0853	0.5299	-1.3408	0.0080	0.2313	-1.6988		
33	-0.01	-4.94	0.0513	-0.1048	0.6930	-1.7561	0.0130	0.2364	-2.0433		
34	-0.01	-5.68	0.0369	-0.0806	0.8622	-2.1685	0.0090	0.2395	-2.1859		
35	-0.03	-6.49	0.0460	-0.0964	1.0363	-2.5786	0.0100	0.2474	-2.0956		
36	-0.01	-7.25	0.0348	-0.0597	1.1133	-2.9705	0.0100	0.2531	-1.7161		
37	-0.01	-8.09	0.0475	-0.1005	1.3314	-3.3888	0.0110	0.2605	-2.1150		
38	-0.01	-8.85	0.0648	-0.1027	1.5360	-3.7692	0.0110	0.2515	-1.5852		
39	-0.01	-9.70	0.0439	-0.0954	1.6275	-4.1342	0.0130	0.2552	-2.1745		
40	-0.02	-10.43	0.0455	-0.0987	1.8007	-4.4667	0.0110	0.2441	-2.1692		
41	-0.01	-11.22	0.0335	-0.0669	2.0251	-4.8839	0.0060	0.2486	-1.9970		
42	-0.01	-11.94	0.0623	-0.1712	2.1683	-5.2264	0.0120	0.2328	-2.7483		
43	-0.02	-12.73	0.0529	-0.1730	2.3668	-5.6212	0.0030	0.2211	-3.2715		
44	-0.04	-13.48	0.0528	-0.2039	2.5538	-5.9740	-0.0010	0.2212	-3.8621		
45	-0.02	-14.41	0.0247	-0.1346	2.7341	-6.4135	-0.0030	0.2101	-5.4486		
46	-0.03	-15.16	0.0098	-0.1297	2.8669	-6.6793	-0.0220	0.2172	-13.2367		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 166 1.01 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	-0.04	-15.99	0.0066	-0.1422	3.0619	-6.9753	-0.0160	0.2080	-21.5515
48	-0.02	-16.80	0.0017	-0.1184	3.2987	-7.4238	-0.0140	0.1946	-69.6352
49	-0.02	-17.67	-0.0102	-0.1547	3.5444	-7.7398	-0.0130	0.2075	15.1686
50	-0.02	-18.48	-0.0274	0.0374	3.6536	-7.9187	-0.0150	0.2236	-1.3635
51	-0.02	-19.39	0.0417	-0.2473	3.8695	-8.1739	-0.0070	0.2193	-5.9324
52	-0.02	-20.13	0.0268	-0.0325	4.1194	-8.4657	-0.0060	0.1995	-1.2134

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	164	1.01	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.01	19.61	-1.3125	0.0041	-0.3674	-0.0031	0.2800	-0.5352	0.0263	-0.2645	-0.0491	0.4942
2	0.01	19.48	-1.2510	0.0041	-0.3751	-0.0033	0.2999	-0.5141	0.0260	-0.2658	-0.0507	0.5170
3	0.01	18.72	-1.2370	0.0051	-0.3648	-0.0041	0.2949	-0.5117	0.0262	-0.2664	-0.0513	0.5206
4	0.01	17.82	-1.2616	0.0050	-0.3580	-0.0040	0.2838	-0.5065	0.0260	-0.2705	-0.0514	0.5340
5	-0.02	17.12	-1.2224	0.0043	-0.3489	-0.0035	0.2853	-0.4750	0.0258	-0.2726	-0.0544	0.5738
6	0.03	16.27	-1.1747	0.0045	-0.3388	-0.0039	0.2884	-0.4861	0.0259	-0.2742	-0.0533	0.5640
7	0.01	15.41	-1.0847	0.0045	-0.3338	-0.0042	0.3078	-0.5046	0.0262	-0.2747	-0.0520	0.5444
8	0.01	14.78	-1.0512	0.0046	-0.3238	-0.0044	0.3080	-0.4962	0.0262	-0.2752	-0.0528	0.5547
9	0.01	13.91	-0.9624	0.0039	-0.3186	-0.0041	0.3206	-0.4919	0.0258	-0.2726	-0.0524	0.5541
10	-0.01	13.21	-0.9617	0.0032	-0.2898	-0.0033	0.3013	-0.4965	0.0260	-0.2732	-0.0523	0.5503
11	-0.01	12.36	-0.9145	0.0025	-0.2832	-0.0028	0.3097	-0.4957	0.0261	-0.2757	-0.0527	0.5561
12	0.0	11.72	-0.8876	0.0023	-0.2603	-0.0026	0.2932	-0.5074	0.0259	-0.2715	-0.0511	0.5350
13	0.0	10.85	-0.8223	0.0023	-0.2564	-0.0028	0.3118	-0.5313	0.0261	-0.2737	-0.0491	0.5152
14	-0.01	10.11	-0.7723	0.0030	-0.2466	-0.0039	0.3194	-0.5256	0.0258	-0.2728	-0.0492	0.5191
15	-0.01	9.31	-0.7286	0.0027	-0.2287	-0.0037	0.3139	-0.5219	0.0259	-0.2749	-0.0496	0.5267
16	0.01	8.52	-0.6974	0.0025	-0.2173	-0.0037	0.3116	-0.5224	0.0260	-0.2748	-0.0498	0.5259
17	-0.01	7.70	-0.6357	0.0031	-0.2068	-0.0049	0.3254	-0.5452	0.0259	-0.2757	-0.0476	0.5056
18	-0.01	6.92	-0.5946	0.0022	-0.1798	-0.0037	0.3024	-0.5395	0.0261	-0.2775	-0.0485	0.5143
19	0.0	6.11	-0.4897	0.0025	-0.1718	-0.0051	0.3508	-0.5703	0.0260	-0.2728	-0.0456	0.4784
20	-0.01	5.32	-0.4399	0.0030	-0.1513	-0.0069	0.3439	-0.5593	0.0263	-0.2771	-0.0470	0.4955
21	0.0	4.48	-0.3956	0.0022	-0.1262	-0.0057	0.3191	-0.5214	0.0264	-0.2825	-0.0506	0.5418
22	-0.01	3.71	-0.3033	0.0018	-0.1171	-0.0061	0.3860	-0.5212	0.0262	-0.2838	-0.0503	0.5444
23	-0.01	2.93	-0.2689	0.0015	-0.0957	-0.0056	0.3559	-0.5527	0.0261	-0.2797	-0.0473	0.5060
24	-0.01	2.20	-0.2006	0.0022	-0.0718	-0.0110	0.3581	-0.5298	0.0263	-0.2812	-0.0496	0.5308
25	-0.01	1.38	-0.1433	0.0015	-0.0572	-0.0108	0.3995	-0.5122	0.0262	-0.2847	-0.0511	0.5557
26	-0.01	0.68	-0.0735	0.0013	-0.0376	-0.0184	0.5114	-0.5065	0.0261	-0.2850	-0.0515	0.5626
27	-0.01	-0.13	-0.0317	0.0003	-0.0185	-0.0095	0.5824	-0.4988	0.0262	-0.2870	-0.0525	0.5753
28	-0.03	-0.88	0.0167	0.0000	0.0048	0.0030	0.2853	-0.4959	0.0262	-0.2889	-0.0529	0.5826
29	-0.03	-1.70	0.0733	-0.0013	0.0210	-0.0184	0.2868	-0.5136	0.0262	-0.2896	-0.0511	0.5639
30	-0.01	-2.51	0.1288	-0.0021	0.0432	-0.0167	0.3355	-0.5361	0.0262	-0.2884	-0.0489	0.5380
31	-0.02	-3.36	0.1530	-0.0033	0.0669	-0.0216	0.4371	-0.5488	0.0262	-0.2858	-0.0477	0.5209
32	0.0	-4.12	0.2404	-0.0047	0.0855	-0.0195	0.3557	-0.5242	0.0262	-0.2887	-0.0500	0.5506
33	-0.01	-4.94	0.3145	-0.0057	0.1009	-0.0183	0.3208	-0.5103	0.0262	-0.2899	-0.0515	0.5681
34	-0.01	-5.68	0.3599	-0.0060	0.1205	-0.0167	0.3349	-0.5264	0.0260	-0.2881	-0.0495	0.5473
35	-0.03	-6.49	0.4025	-0.0069	0.1436	-0.0171	0.3568	-0.5286	0.0262	-0.2928	-0.0495	0.5539
36	-0.01	-7.25	0.4794	-0.0081	0.1648	-0.0170	0.3439	-0.5692	0.0263	-0.2869	-0.0462	0.5041
37	-0.01	-8.09	0.5470	-0.0091	0.1785	-0.0166	0.3263	-0.5719	0.0263	-0.2865	-0.0461	0.5010
38	-0.01	-8.85	0.5788	-0.0093	0.2037	-0.0161	0.3519	-0.5601	0.0260	-0.2846	-0.0465	0.5082
39	-0.01	-9.70	0.6571	-0.0109	0.2204	-0.0166	0.3355	-0.5592	0.0266	-0.2900	-0.0476	0.5186
40	-0.02	-10.43	0.6990	-0.0111	0.2340	-0.0159	0.3348	-0.5474	0.0265	-0.2875	-0.0485	0.5252
41	-0.01	-11.22	0.7292	-0.0114	0.2541	-0.0157	0.3484	-0.5739	0.0264	-0.2859	-0.0460	0.4982
42	-0.01	-11.94	0.8087	-0.0115	0.2616	-0.0143	0.3234	-0.6086	0.0268	-0.2828	-0.0440	0.4646
43	-0.02	-12.73	0.8603	-0.0104	0.2732	-0.0121	0.3175	-0.5506	0.0269	-0.2882	-0.0488	0.5235
44	-0.04	-13.48	0.9090	-0.0128	0.2879	-0.0141	0.3167	-0.5593	0.0271	-0.2842	-0.0484	0.5082
45	-0.02	-14.41	0.9653	-0.0130	0.3011	-0.0135	0.3119	-0.5246	0.0266	-0.2839	-0.0507	0.5411
46	-0.03	-15.16	0.9783	-0.0139	0.3137	-0.0142	0.3206	-0.4964	0.0260	-0.2861	-0.0524	0.5763

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			164		1.01		1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2			
47	-0.04	-15.99	1.0274	-0.0134	0.3285	-0.0131	0.3197	-0.4952	0.0263	-0.2809	-0.0532	0.5672			
48	-0.02	-16.80	1.0670	-0.0124	0.3383	-0.0116	0.3171	-0.5032	0.0259	-0.2880	-0.0515	0.5722			
49	-0.02	-17.67	1.1625	-0.0134	0.3430	-0.0116	0.2950	-0.4961	0.0258	-0.2857	-0.0520	0.5759			
50	-0.02	-18.48	1.1482	-0.0132	0.3543	-0.0115	0.3086	-0.5133	0.0247	-0.2834	-0.0482	0.5521			
51	-0.02	-19.39	1.1957	-0.0125	0.3713	-0.0105	0.3106	-0.4547	0.0266	-0.2892	-0.0586	0.6360			
52	-0.02	-20.13	1.2057	-0.0131	0.3817	-0.0109	0.3165	-0.5085	0.0252	-0.2830	-0.0496	0.5566			

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		164	1.01	1.7	0.0	82WOF12	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	0.01	19.61	-0.9981	0.0004	-0.4108	-0.0005	0.4115	-0.0733	0.0140	-0.0239	-0.1916	0.3264
2	0.01	19.48	-0.9968	0.0004	-0.4047	-0.0004	0.4060	-0.0810	0.0118	-0.0179	-0.1457	0.2209
3	0.01	18.72	-0.9954	-0.0005	-0.4040	0.0006	0.4058	-0.0525	0.0044	-0.0079	-0.0847	0.1504
4	0.01	17.82	-0.9926	0.0007	-0.4050	-0.0008	0.4343	-0.0616	0.0083	-0.0194	-0.1355	0.3154
5	-0.02	17.12	-0.9170	0.0003	-0.3922	-0.0003	0.4276	-0.0427	0.0073	-0.0221	-0.1721	0.5182
6	0.03	16.27	-0.9109	0.0002	-0.3799	-0.0002	0.4171	-0.0773	0.0017	-0.0162	-0.0220	0.2090
7	0.01	15.41	-0.8803	-0.0006	-0.3714	0.0007	0.4219	-0.0824	0.0016	-0.0107	-0.0194	0.1493
8	0.01	14.78	-0.8693	0.0001	-0.3705	-0.0002	0.4261	-0.0610	-0.0033	-0.0067	0.0541	0.1103
9	0.01	13.91	-0.8344	-0.0008	-0.3492	0.0010	0.4185	-0.0396	-0.0040	-0.0053	0.1010	0.1337
10	-0.01	13.21	-0.7194	-0.0018	-0.3509	0.0025	0.4878	-0.0560	-0.0043	0.0041	0.0777	-0.0739
11	-0.01	12.36	-0.6963	-0.0022	-0.3310	0.0032	0.4754	-0.0338	-0.0051	0.0003	0.1523	-0.0100
12	0.0	11.72	-0.6705	-0.0029	-0.3155	0.0044	0.4706	-0.0569	-0.0058	0.0098	0.1019	-0.1729
13	0.0	10.85	-0.6275	-0.0031	-0.3062	0.0050	0.4879	-0.0324	-0.0057	0.0089	0.1759	-0.2748
14	-0.01	10.11	-0.5807	-0.0027	-0.2922	0.0046	0.5032	-0.0369	-0.0051	0.0125	0.1382	-0.3389
15	-0.01	9.31	-0.5495	-0.0027	-0.2699	0.0049	0.4911	-0.0296	-0.0029	0.0096	0.0996	-0.3256
16	0.01	8.52	-0.4888	-0.0035	-0.2606	0.0072	0.5331	0.0055	-0.0037	0.0100	-0.6726	1.8241
17	-0.01	7.70	-0.4963	-0.0029	-0.2283	0.0058	0.4599	0.0022	-0.0040	0.0097	-1.8179	4.4241
18	-0.01	6.92	-0.3907	-0.0042	-0.2237	0.0109	0.5725	-0.0214	-0.0033	0.0194	0.1565	-0.9051
19	0.0	6.11	-0.3571	-0.0042	-0.1984	0.0119	0.5555	-0.0172	-0.0031	0.0164	0.1831	-0.9517
20	-0.01	5.32	-0.3204	-0.0041	-0.1810	0.0128	0.5647	-0.0288	-0.0024	0.0196	0.0851	-0.6807
21	0.0	4.48	-0.2529	-0.0042	-0.1605	0.0168	0.6349	0.0008	-0.0023	0.0138	-2.8745	17.2082
22	-0.01	3.71	-0.1815	-0.0043	-0.1424	0.0237	0.7845	-0.0100	-0.0015	0.0138	0.1550	-1.3768
23	-0.01	2.93	-0.1652	-0.0030	-0.1133	0.0182	0.6881	0.0111	-0.0024	0.0157	-0.2162	1.4143
24	-0.01	2.20	-0.1073	-0.0037	-0.0900	0.0349	0.8393	-0.0100	-0.0016	0.0138	0.1600	-1.3768
25	-0.01	1.38	-0.0433	-0.0030	-0.0758	0.0693	1.7512	-0.0075	-0.0019	0.0185	0.2533	-2.4668
26	-0.01	0.68	0.0081	-0.0040	-0.0521	-0.4937	-6.4322	-0.0286	-0.0020	0.0178	0.0717	-0.6213
27	-0.01	-0.13	0.0229	-0.0038	-0.0282	-0.1681	-1.2301	-0.0058	-0.0020	0.0114	0.3534	-1.9599
28	-0.03	-0.88	0.0505	-0.0033	-0.0030	-0.0663	-0.0589	-0.0133	-0.0013	0.0123	0.1015	-0.9224
29	-0.03	-1.70	0.1252	-0.0032	0.0147	-0.0260	0.1176	-0.0277	-0.0013	0.0127	0.0487	-0.4574
30	-0.01	-2.51	0.1499	-0.0028	0.0386	-0.0190	0.2538	-0.0499	-0.0009	0.0159	0.0190	-0.3181
31	-0.02	-3.36	0.2137	-0.0036	0.0578	-0.0168	0.2705	-0.0436	-0.0014	0.0196	0.0321	-0.4489
32	0.0	-4.12	0.2678	-0.0024	0.0825	-0.0091	0.3097	-0.0360	-0.0011	0.0174	0.0306	-0.4835
33	-0.01	-4.94	0.3049	-0.0012	0.1026	-0.0039	0.3175	-0.0061	-0.0014	0.0121	0.2377	-1.9783
34	-0.01	-5.68	0.3547	-0.0006	0.1298	-0.0017	0.3659	-0.0132	-0.0009	0.0116	0.0720	-0.8789
35	-0.03	-6.49	0.4018	0.0011	0.1531	0.0027	0.3810	0.0138	-0.0013	0.0035	-0.0978	0.2535
36	-0.01	-7.25	0.4694	0.0010	0.1722	0.0022	0.3669	-0.0309	-0.0009	0.0105	0.0307	-0.3399
37	-0.01	-8.09	0.5402	0.0020	0.1857	0.0038	0.3438	0.0041	-0.0024	0.0003	-0.5853	0.0649
38	-0.01	-8.85	0.5624	0.0027	0.2102	0.0049	0.3737	0.0187	-0.0024	-0.0015	-0.1283	-0.0785
39	-0.01	-9.70	0.6004	0.0032	0.2261	0.0054	0.3765	-0.0520	-0.0020	0.0105	0.0394	-0.2014
40	-0.02	-10.43	0.6371	0.0040	0.2448	0.0064	0.3842	-0.0297	-0.0031	0.0079	0.1044	-0.2661
41	-0.01	-11.22	0.7183	0.0051	0.2560	0.0071	0.3565	-0.0308	-0.0015	0.0105	0.0503	-0.3421
42	-0.01	-11.94	0.7421	0.0056	0.2697	0.0075	0.3634	-0.0375	-0.0013	0.0088	0.0347	-0.2348
43	-0.02	-12.73	0.7816	0.0067	0.2877	0.0086	0.3681	-0.0293	-0.0008	0.0040	0.0273	-0.1378
44	-0.04	-13.48	0.8198	0.0069	0.3036	0.0085	0.3729	-0.0376	-0.0023	0.0089	0.0625	-0.2359
45	-0.02	-14.41	0.8395	0.0078	0.3261	0.0093	0.3903	-0.0468	-0.0015	0.0035	0.0331	-0.0749
46	-0.03	-15.16	0.9442	0.0084	0.3384	0.0084	0.3439	-0.0579	-0.0011	0.0105	0.0297	-0.2801

751

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 164 1.01 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.04	-15.99	0.9333	0.0099	0.3426	0.0107	0.3671	-0.0467	-0.0025	0.0035	0.0546	-0.0758
48	-0.02	-16.80	0.9921	0.0106	0.3527	0.0107	0.3555	-0.0502	-0.0008	0.0014	0.0169	-0.0273
49	-0.02	-17.67	1.0756	0.0114	0.3595	0.0106	0.3342	-0.0238	-0.0017	-0.0036	0.0735	0.1525
50	-0.02	-18.48	1.0506	0.0123	0.3794	0.0118	0.3611	-0.0161	-0.0013	-0.0058	0.0838	0.3581
51	-0.02	-19.39	1.0494	0.0126	0.3786	0.0115	0.3444	-0.0423	-0.0018	-0.0008	0.0437	0.0188
52	-0.02	-20.13	1.1293	0.0133	0.3902	0.0118	0.3455	-0.0527	-0.0022	-0.0016	0.0417	0.0296

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	165	1.01	1.7	0.0	82WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	3.08	19.74	0.2097	0.4174	-4.0150	8.0596	-0.1030	0.1758	1.9906	
2	3.06	19.73	0.2219	0.4253	-3.9761	8.0452	-0.1200	0.1767	1.9168	
3	3.08	19.61	0.1681	0.6526	-4.0274	8.1800	-0.0750	0.1639	3.8826	
4	3.06	18.69	0.1976	0.5153	-3.9476	6.0273	-0.0990	0.1715	2.6081	
5	3.07	17.98	0.1681	0.6706	-3.7935	7.8886	-0.0520	0.1659	3.9896	
6	3.08	17.14	0.2539	0.3445	-3.7247	7.7753	-0.0890	0.1738	1.3570	
7	3.07	16.31	0.2775	0.2235	-3.4094	7.3508	-0.0760	0.1718	0.8054	
8	3.07	15.61	0.2629	0.1909	-3.3011	7.2381	-0.0630	0.1686	0.7263	
9	3.06	14.79	0.2873	-0.0342	-3.0879	6.9097	-0.0190	0.1665	-0.1191	
10	3.04	14.02	0.3043	-0.0720	-2.8703	6.4751	-0.0300	0.1660	-0.2367	
11	3.06	13.28	0.3460	-0.2474	-2.7631	6.2441	0.0010	0.1506	-0.7150	
12	3.05	12.54	0.3546	-0.3204	-2.6287	5.9488	0.0040	0.1397	-0.9037	
13	3.04	11.85	0.3710	-0.4733	-2.3602	5.5470	0.0140	0.1533	-1.2760	
14	3.03	10.95	0.3929	-0.5691	-2.2643	5.2428	0.0240	0.1522	-1.4483	
15	3.04	10.22	0.4057	-0.6960	-2.0110	4.8152	0.0290	0.1643	-1.7204	
16	3.04	9.40	0.4195	-0.7383	-1.8178	4.4236	0.0360	0.1561	-1.7599	
17	3.00	8.59	0.4260	-0.8124	-1.7468	4.1673	0.0380	0.1595	-1.9069	
18	3.01	7.78	0.4526	-0.8617	-1.4704	3.7253	0.0350	0.1666	-1.9036	
19	3.00	6.99	0.4886	-1.0220	-1.4200	3.4548	0.0320	0.1690	-2.0916	
20	2.99	6.18	0.4613	-1.0358	-1.2158	2.9980	0.0270	0.1720	-2.2453	
21	3.00	5.39	0.4562	-1.0127	-1.0794	2.6639	0.0310	0.1777	-2.2196	
22	2.99	4.56	0.4457	-1.0190	-0.9617	2.3462	0.0210	0.1777	-2.2860	
23	3.01	3.83	0.4973	-1.1372	-0.7671	1.9028	0.0160	0.1937	-2.2866	
24	2.99	3.06	0.5002	-1.1703	-0.5976	1.5376	0.0160	0.1961	-2.3394	
25	3.00	2.31	0.5229	-1.2210	-0.4850	1.1650	0.0130	0.2033	-2.3350	
26	3.01	1.51	0.5518	-1.2945	-0.3735	0.8678	0.0120	0.2153	-2.3458	
27	3.00	0.78	0.5520	-1.3338	-0.2052	0.5142	0.0130	0.2182	-2.4161	
28	3.00	0.0	0.5559	-1.3452	-0.0561	0.1975	0.0130	0.2345	-2.4198	
29	2.99	-0.77	0.5395	-1.3053	0.0638	-0.0543	0.0140	0.2282	-2.4193	
30	2.99	-1.59	0.5535	-1.3509	0.0356	-0.1818	0.0120	0.2258	-2.4405	
31	3.01	-2.38	0.5516	-1.3212	0.2531	-0.5883	0.0120	0.2358	-2.3951	
32	2.99	-3.26	0.5339	-1.2834	0.4209	-0.9133	0.0130	0.2365	-2.4037	
33	2.99	-4.02	0.5304	-1.2385	0.4465	-1.1751	0.0150	0.2365	-2.3350	
34	3.01	-4.80	0.5241	-1.1587	0.6497	-1.5695	0.0090	0.2401	-2.2108	
35	2.99	-5.52	0.5045	-1.1473	0.7942	-1.9368	0.0070	0.2443	-2.2740	
36	3.01	-6.34	0.5117	-1.1064	0.9426	-2.3515	0.0090	0.2509	-2.1620	
37	3.02	-7.10	0.5012	-1.0367	1.0994	-2.7439	0.0	0.2571	-2.0683	
38	3.00	-7.95	0.4798	-1.0187	1.2597	-3.0775	0.0060	0.2651	-2.1211	
39	3.01	-8.69	0.4602	-0.9763	1.4370	-3.4576	0.0	0.2686	-2.0770	
40	3.01	-9.51	0.4369	-0.9157	1.5484	-3.8265	0.0020	0.2681	-2.0957	
41	3.01	-10.28	0.4434	-0.8448	1.7683	-4.2123	-0.0080	0.2702	-1.9051	
42	3.01	-11.07	0.4410	-0.7954	1.9395	-4.6251	-0.0120	0.2582	-1.8035	
43	3.01	-11.78	0.3919	-0.6987	2.0964	-5.0797	-0.0110	0.2636	-1.7827	
44	3.01	-12.56	0.4018	-0.6706	2.3052	-5.4410	-0.0140	0.2674	-1.6687	
45	3.03	-13.32	0.3764	-0.5859	2.5247	-5.8552	-0.0050	0.2458	-1.5567	
46	3.02	-14.18	0.3380	-0.4181	2.6631	-6.1929	0.0050	0.2524	-1.2373	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 165 1.01 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	3.05	-14.99	0.3176	-0.3396	2.8962	-6.6034	0.0260	0.2321	-1.0694		
48	3.03	-15.81	0.3460	-0.3354	3.0493	-6.9417	0.0570	0.2291	-0.9694		
49	3.04	-16.63	0.3270	-0.1678	3.2291	-7.2853	0.0600	0.2276	-0.5131		
50	3.06	-17.40	0.3058	-0.1171	3.4462	-7.6014	0.0630	0.2432	-0.3830		
51	3.04	-18.30	0.3157	-0.0280	3.6746	-7.9541	0.0780	0.2326	-0.0886		
52	3.07	-19.13	0.2931	0.1066	3.8000	-8.1516	0.0820	0.2330	0.3639		
53	3.08	-19.93	0.2374	0.2206	3.9626	-8.3103	0.0860	0.2303	0.9294		
54	3.04	-20.63	0.1386	0.3669	4.1115	-8.3827	0.0980	0.2353	2.6476		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	165	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	3.08	19.74	-1.0392	0.0074	-0.3204	-0.0068	0.2942	-0.1895	0.0278	-0.1942	-0.1467	1.0250
2	3.06	19.73	-1.0738	0.0063	-0.3383	-0.0059	0.3151	-0.2058	0.0282	-0.1961	-0.1370	0.9532
3	3.08	19.61	-1.1125	0.0073	-0.3227	-0.0066	0.2901	-0.1974	0.0275	-0.2017	-0.1395	1.0222
4	3.06	18.69	-1.0825	0.0079	-0.3165	-0.0073	0.2928	-0.1850	0.0276	-0.1959	-0.1492	1.0592
5	3.07	17.98	-0.9929	0.0097	-0.3173	-0.0098	0.3195	-0.2054	0.0275	-0.2059	-0.1339	1.0026
6	3.08	17.14	-1.0179	0.0084	-0.3108	-0.0083	0.3053	-0.2021	0.0276	-0.1956	-0.1368	0.9680
7	3.07	16.31	-1.0027	0.0076	-0.2957	-0.0076	0.2949	-0.1817	0.0271	-0.2004	-0.1491	1.1032
8	3.07	15.61	-0.9343	0.0085	-0.2967	-0.0091	0.3176	-0.2166	0.0267	-0.1998	-0.1232	0.9228
9	3.06	14.79	-0.9082	0.0087	-0.2811	-0.0096	0.3095	-0.1835	0.0262	-0.2007	-0.1428	1.0940
10	3.04	14.02	-0.8932	0.0075	-0.2623	-0.0084	0.2937	-0.1987	0.0256	-0.1986	-0.1291	0.9995
11	3.06	13.28	-0.8286	0.0067	-0.2573	-0.0081	0.3105	-0.1802	0.0255	-0.2036	-0.1418	1.1301
12	3.05	12.54	-0.7919	0.0052	-0.2445	-0.0066	0.3092	-0.1863	0.0248	-0.2035	-0.1334	1.0927
13	3.04	11.85	-0.7478	0.0057	-0.2329	-0.0076	0.3114	-0.1941	0.0253	-0.2009	-0.1306	1.0354
14	3.03	10.95	-0.6819	0.0052	-0.2319	-0.0077	0.3401	-0.1931	0.0259	-0.2065	-0.1341	1.0696
15	3.04	10.22	-0.6577	0.0051	-0.2163	-0.0078	0.3290	-0.1987	0.0265	-0.2058	-0.1336	1.0358
16	3.04	9.40	-0.6313	0.0064	-0.1974	-0.0102	0.3126	-0.1793	0.0263	-0.2059	-0.1469	1.1486
17	3.00	8.59	-0.6033	0.0064	-0.1934	-0.0107	0.3206	-0.2059	0.0263	-0.2097	-0.1277	1.0185
18	3.01	7.78	-0.5445	0.0063	-0.1782	-0.0116	0.3273	-0.2025	0.0262	-0.2134	-0.1296	1.0542
19	3.00	6.99	-0.4815	0.0063	-0.1705	-0.0132	0.3542	-0.2062	0.0264	-0.2100	-0.1280	1.0185
20	2.99	6.18	-0.4654	0.0052	-0.1448	-0.0112	0.3111	-0.2139	0.0262	-0.2097	-0.1227	0.9807
21	3.00	5.39	-0.4124	0.0050	-0.1344	-0.0121	0.3259	-0.2121	0.0263	-0.2125	-0.1240	1.0022
22	2.99	4.56	-0.3037	0.0048	-0.1293	-0.0158	0.4257	-0.2303	0.0261	-0.2169	-0.1135	0.9420
23	3.01	3.83	-0.2794	0.0046	-0.1087	-0.0165	0.3890	-0.2175	0.0260	-0.2176	-0.1197	1.0008
24	2.99	3.06	-0.2317	0.0043	-0.0861	-0.0188	0.3716	-0.2294	0.0260	-0.2161	-0.1133	0.9422
25	3.00	2.31	-0.1981	0.0044	-0.0660	-0.0225	0.3332	-0.2105	0.0258	-0.2201	-0.1225	1.0458
26	3.01	1.51	-0.1320	0.0042	-0.0485	-0.0322	0.3673	-0.2171	0.0254	-0.2174	-0.1172	1.0016
27	3.00	0.78	-0.0581	0.0032	-0.0388	-0.0559	0.6671	-0.2280	0.0253	-0.2164	-0.1112	0.9494
28	3.00	0.0	-0.0464	0.0007	-0.0111	-0.0162	0.2384	-0.2247	0.0253	-0.2245	-0.1128	0.9994
29	2.99	-0.77	-0.0145	-0.0004	0.0041	0.0310	-0.2806	-0.2240	0.0251	-0.2276	-0.1123	1.0162
30	2.99	-1.59	0.0238	-0.0014	0.0213	-0.0588	0.8962	-0.2293	0.0251	-0.2261	-0.1097	0.9861
31	3.01	-2.38	0.0857	-0.0042	0.0401	-0.0490	0.4686	-0.2421	0.0249	-0.2283	-0.1030	0.9433
32	2.99	-3.24	0.1513	-0.0053	0.0565	-0.0350	0.3735	-0.2570	0.0246	-0.2299	-0.0959	0.8947
33	2.99	-4.02	0.1692	-0.0062	0.0752	-0.0366	0.4443	-0.2542	0.0242	-0.2352	-0.0952	0.9253
34	3.01	-4.80	0.2734	-0.0065	0.0916	-0.0238	0.3350	-0.2839	0.0234	-0.2328	-0.0826	0.8198
35	2.99	-5.52	0.3012	-0.0077	0.1082	-0.0257	0.3591	-0.3141	0.0221	-0.2344	-0.0705	0.7460
36	3.01	-6.34	0.3322	-0.0091	0.1288	-0.0275	0.3877	-0.2954	0.0209	-0.2413	-0.0707	0.8168
37	3.02	-7.10	0.3625	-0.0094	0.1510	-0.0261	0.4165	-0.2978	0.0194	-0.2469	-0.0651	0.8290
38	3.00	-7.95	0.4887	-0.0106	0.1537	-0.0217	0.3146	-0.3227	0.0183	-0.2464	-0.0568	0.7635
39	3.01	-8.69	0.4972	-0.0121	0.1766	-0.0243	0.3551	-0.3307	0.0170	-0.2540	-0.0514	0.7679
40	3.01	-9.51	0.5208	-0.0123	0.1932	-0.0236	0.3710	-0.3294	0.0160	-0.2560	-0.0487	0.7772
41	3.01	-10.28	0.5846	-0.0133	0.2041	-0.0227	0.3491	-0.2982	0.0153	-0.2652	-0.0513	0.8894
42	3.01	-11.07	0.6149	-0.0142	0.2130	-0.0231	0.3464	-0.3221	0.0139	-0.2685	-0.0433	0.8335
43	3.01	-11.78	0.6821	-0.0143	0.2228	-0.0210	0.3266	-0.3466	0.0129	-0.2729	-0.0373	0.7872
44	3.01	-12.56	0.6874	-0.0144	0.2379	-0.0209	0.3462	-0.3398	0.0123	-0.2778	-0.0362	0.8175
45	3.03	-13.32	0.7917	-0.0143	0.2395	-0.0181	0.3025	-0.3887	0.0115	-0.2845	-0.0297	0.7319
46	3.02	-14.18	0.8274	-0.0137	0.2528	-0.0166	0.3055	-0.3924	0.0108	-0.2933	-0.0275	0.7475

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART MACH RX10-6													
6		165	1.01	1.7	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
					0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CHI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	3.05	-14.99	0.8368	-0.0140	0.2682	-0.0167	0.3204	-0.4406	0.0105	-0.3015	-0.0239	0.6842	
48	3.03	-15.81	0.9139	-0.0129	0.2844	-0.0142	0.3112	-0.4694	0.0120	-0.3204	-0.0256	0.6825	
49	3.04	-16.63	0.9767	-0.0151	0.2939	-0.0155	0.3009	-0.5496	0.0115	-0.3193	-0.0209	0.5810	
50	3.06	-17.40	0.9612	-0.0165	0.3120	-0.0172	0.3246	-0.4989	0.0114	-0.3313	-0.0228	0.6641	
51	3.04	-18.30	0.9956	-0.0166	0.3229	-0.0167	0.3243	-0.6102	0.0119	-0.3291	-0.0195	0.5393	
52	3.07	-19.13	1.0309	-0.0175	0.3270	-0.0170	0.3172	-0.5897	0.0105	-0.3358	-0.0179	0.5694	
53	3.08	-19.93	1.0479	-0.0166	0.3340	-0.0159	0.3187	-0.6574	0.0107	-0.3403	-0.0163	0.5177	
54	3.04	-20.63	1.0841	-0.0177	0.3349	-0.0163	0.3090	-0.5645	0.0094	-0.3415	-0.0166	0.6049	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 165 1.01 1.7			0.0	B2WOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	3.08	19.74	-1.1274	-0.0002	-0.4441	0.0002	0.3939	-0.2129	-0.0359	-0.0499	0.1688	0.2346
2	3.06	19.73	-1.0745	0.0003	-0.4537	-0.0003	0.4223	-0.2445	-0.0296	-0.0579	0.1210	0.2367
3	3.08	19.61	-1.1161	-0.0001	-0.4480	0.0001	0.4014	-0.2504	-0.0380	-0.0447	0.1517	0.1787
4	3.06	18.69	-1.1157	0.0008	-0.4481	-0.0008	0.4016	-0.2356	-0.0400	-0.0451	0.1700	0.1914
5	3.07	17.98	-1.1060	0.0006	-0.4406	-0.0005	0.3984	-0.2135	-0.0502	-0.0233	0.2353	0.1093
6	3.08	17.14	-1.0381	0.0018	-0.4491	-0.0018	0.4326	-0.2143	-0.0420	-0.0332	0.1962	0.1550
7	3.07	16.31	-0.9812	0.0035	-0.4353	-0.0036	0.4437	-0.1887	-0.0411	-0.0314	0.2178	0.1663
8	3.07	15.61	-0.9866	0.0034	-0.4217	-0.0035	0.4275	-0.1546	-0.0447	-0.0134	0.2891	0.0868
9	3.06	14.79	-0.9263	0.0034	-0.4174	-0.0037	0.4506	-0.1420	-0.0480	0.0098	0.3383	-0.0689
10	3.04	14.02	-0.9080	0.0032	-0.4013	-0.0036	0.4419	-0.0983	-0.0471	0.0059	0.4796	-0.0605
11	3.06	13.28	-0.8475	0.0027	-0.3882	-0.0032	0.4580	-0.0746	-0.0475	0.0226	0.6373	-0.3035
12	3.05	12.54	-0.8256	0.0020	-0.3680	-0.0025	0.4457	-0.0479	-0.0483	0.0300	1.0092	-0.6271
13	3.04	11.85	-0.7777	0.0011	-0.3553	-0.0014	0.4569	-0.0045	-0.0474	0.0394	10.5315	-8.7557
14	3.03	10.95	-0.7234	-0.0006	-0.3367	-0.0008	0.4655	0.0234	-0.0446	0.0520	-1.9056	2.2221
15	3.04	10.22	-0.6983	-0.0022	-0.3148	0.0031	0.4506	0.0356	-0.0414	0.0566	-1.1641	1.5888
16	3.04	9.40	-0.6230	-0.0030	-0.3020	0.0049	0.4847	0.0487	-0.0372	0.0702	-0.7648	1.4420
17	3.00	8.59	-0.5736	-0.0043	-0.2801	0.0075	0.4883	0.1004	-0.0336	0.0711	-0.3351	0.7087
18	3.01	7.78	-0.4973	-0.0045	-0.2603	0.0091	0.5234	0.0874	-0.0274	0.0749	-0.3134	0.8572
19	3.00	6.99	-0.4540	-0.0060	-0.2434	0.0133	0.5360	0.1430	-0.0246	0.0753	-0.1720	0.5269
20	2.99	6.18	-0.4011	-0.0057	-0.2147	0.0143	0.5354	0.1556	-0.0203	0.0760	-0.1304	0.4887
21	3.00	5.39	-0.3598	-0.0054	-0.1910	0.0150	0.5308	0.1321	-0.0156	0.0817	-0.1196	0.6186
22	2.99	4.56	-0.2790	-0.0057	-0.1681	0.0204	0.6023	0.1646	-0.0125	0.0755	-0.0759	0.4590
23	3.01	3.83	-0.2177	-0.0055	-0.1436	0.0255	0.6598	0.1757	-0.0096	0.0832	-0.0549	0.4738
24	2.99	3.06	-0.2060	-0.0045	-0.1124	0.0218	0.5458	0.1461	-0.0068	0.0858	-0.0469	0.5872
25	3.00	2.31	-0.1591	-0.0053	-0.0889	0.0333	0.5589	0.1927	-0.0057	0.0824	-0.0298	0.4277
26	3.01	1.51	-0.0468	-0.0038	-0.0737	0.0812	1.5747	0.1870	-0.0046	0.0884	-0.0246	0.4728
27	3.00	0.78	-0.0113	-0.0049	-0.0531	0.4336	4.6960	0.1821	-0.0041	0.0939	-0.0228	0.5155
28	3.00	0.0	0.0292	-0.0043	-0.0280	-0.1472	-0.9579	0.2011	-0.0040	0.0908	-0.0201	0.4516
29	2.99	-0.77	0.0492	-0.0046	-0.0029	-0.0945	-0.0591	0.1482	-0.0048	0.1032	-0.0327	0.6962
30	2.99	-1.59	0.1266	-0.0038	0.0142	-0.0304	0.1120	0.1946	-0.0039	0.1019	-0.0203	0.5239
31	3.01	-2.38	0.1594	-0.0028	0.0407	-0.0179	0.2554	0.2360	-0.0031	0.0890	-0.0131	0.3773
32	2.99	-3.24	0.2116	-0.0030	0.0661	-0.0142	0.3124	0.1779	-0.0023	0.0942	-0.0129	0.5294
33	2.99	-4.02	0.2132	-0.0004	0.0520	-0.0019	0.4317	0.1920	-0.0022	0.0966	-0.0117	0.5030
34	3.01	-4.80	0.3172	0.0002	0.1085	0.0008	0.3420	0.1926	-0.0013	0.0929	-0.0070	0.4822
35	2.99	-5.52	0.3844	0.0016	0.1330	0.0042	0.3460	0.1890	-0.0022	0.0939	-0.0116	0.4967
36	3.01	-6.34	0.4551	0.0022	0.1505	0.0049	0.3315	0.1783	-0.0018	0.0945	-0.0101	0.5301
37	3.02	-7.10	0.4661	0.0019	0.1867	0.0042	0.4006	0.2111	-0.0022	0.0887	-0.0104	0.4204
38	3.00	-7.95	0.5052	0.0034	0.2070	0.0067	0.4098	0.1858	-0.0018	0.0903	-0.0097	0.4861
39	3.01	-8.69	0.6436	0.0040	0.2162	0.0063	0.3359	0.1790	-0.0033	0.0946	-0.0184	0.5287
40	3.01	-9.51	0.6482	0.0052	0.2446	0.0080	0.3773	0.1868	-0.0031	0.0892	-0.0169	0.4778
41	3.01	-10.28	0.7138	0.0047	0.2598	0.0067	0.3640	0.2163	-0.0032	0.0840	-0.0150	0.3882
42	3.01	-11.07	0.7385	0.0046	0.2859	0.0063	0.3871	0.1864	-0.0028	0.0919	-0.0150	0.4931
43	3.01	-11.78	0.8280	0.0043	0.2568	0.0052	0.3609	0.1980	-0.0048	0.0894	-0.0245	0.4514
44	3.01	-12.56	0.8724	0.0037	0.3221	0.0062	0.3692	0.1608	-0.0053	0.1031	-0.0330	0.6411
45	3.03	-13.32	0.9001	0.0041	0.3418	0.0046	0.3798	0.1987	-0.0059	0.0937	-0.0297	0.4716
46	3.02	-14.18	0.9998	0.0034	0.3902	0.0034	0.3517	0.1956	-0.0056	0.0910	-0.0289	0.4651

757

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 165 1.01 1.7 0.0 82WOF12 0.0 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.05	-14.99	1.0094	0.0039	0.3683	0.0039	0.3649	0.2187	-0.0053	0.0847	-0.0245	0.3872
48	3.03	-15.81	1.0723	0.0054	0.3733	0.0050	0.3481	0.1849	-0.0048	0.0952	-0.0260	0.5149
49	3.04	-16.63	1.0773	0.0056	0.3458	0.0052	0.3674	0.1892	-0.0028	0.0917	-0.0148	0.4849
50	3.06	-17.40	1.1062	0.0054	0.4079	0.0049	0.3687	0.1958	-0.0014	0.0907	-0.0074	0.4634
51	3.04	-18.30	1.1640	0.0064	0.4136	0.0055	0.3553	0.1967	-0.0013	0.0911	-0.0069	0.4634
52	3.07	-19.13	1.2460	0.0082	0.4134	0.0066	0.3318	0.1456	-0.0009	0.0936	-0.0062	0.6430
53	3.08	-19.93	1.2140	0.0106	0.4221	0.0088	0.3477	0.1579	0.0005	0.0947	0.0035	0.5998
54	3.04	-20.63	1.2198	0.0243	0.4053	0.0199	0.3323	0.1756	0.0001	0.0844	0.0006	0.4807

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	166	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	6.14	19.70	0.7572	-0.3452	-3.9905	7.7024	-0.1920	0.1437	-0.4559	
2	6.15	19.35	0.7613	-0.3189	-4.0621	7.8436	-0.2020	0.1345	-0.4189	
3	6.15	18.61	0.7623	-0.3583	-3.9415	7.7808	-0.1780	0.1195	-0.4700	
4	6.12	17.83	0.7457	-0.4551	-3.7965	7.6658	-0.1240	0.1291	-0.6102	
5	6.12	16.96	0.7616	-0.6033	-3.6819	7.5104	-0.0930	0.1115	-0.7921	
6	6.12	16.20	0.8230	-0.8662	-3.4434	7.2625	-0.1050	0.1274	-1.0525	
7	6.12	15.41	0.8690	-1.0716	-3.2158	6.9754	-0.0850	0.1447	-1.2332	
8	6.08	14.70	0.8229	-1.0611	-3.0848	6.7944	-0.0550	0.1400	-1.2894	
9	6.08	13.89	0.8824	-1.3273	-2.8687	6.4035	-0.0220	0.1418	-1.5042	
10	6.07	13.16	0.9078	-1.4559	-2.6679	6.0227	-0.0230	0.1491	-1.6038	
11	6.07	12.39	0.9091	-1.5737	-2.5659	5.7279	-0.0020	0.1405	-1.7311	
12	6.06	11.64	0.9142	-1.6688	-2.2914	5.3077	-0.0030	0.1574	-1.8255	
13	6.05	10.86	0.9357	-1.8099	-2.1315	4.9699	0.0130	0.1571	-1.9343	
14	6.05	10.05	0.9540	-1.9225	-2.0357	4.6978	0.0160	0.1596	-2.0047	
15	6.04	9.24	1.0000	-2.0749	-1.8441	4.3005	0.0220	0.1646	-2.0749	
16	6.06	8.46	1.0394	-2.1760	-1.7346	3.9742	0.0200	0.1668	-2.0936	
17	6.05	7.61	1.0341	-2.2736	-1.4271	3.4828	0.0220	0.1688	-2.1987	
18	6.04	6.82	1.0335	-2.3017	-1.3686	3.1899	0.0190	0.1698	-2.2272	
19	6.03	6.13	1.0467	-2.3562	-1.1830	2.8331	0.0210	0.1697	-2.2512	
20	6.04	5.25	1.0315	-2.4249	-0.9925	2.3213	0.0150	0.1756	-2.3209	
21	6.03	4.46	1.0734	-2.5143	-0.8724	2.0392	0.0090	0.1856	-2.3413	
22	6.04	3.65	1.0815	-2.5549	-0.7334	1.6587	0.0080	0.1981	-2.3625	
23	6.02	2.95	1.0901	-2.6009	-0.5445	1.2963	0.0070	0.1978	-2.3861	
24	6.01	2.19	1.0949	-2.6776	-0.4244	0.9752	0.0020	0.2067	-2.4457	
25	6.02	1.40	1.0840	-2.6484	-0.2967	0.6953	0.0060	0.2255	-2.4433	
26	6.01	0.67	1.0569	-2.6265	-0.2400	0.5149	0.0070	0.2331	-2.4851	
27	6.03	-0.10	1.0998	-2.7215	-0.0672	0.1861	0.0130	0.2477	-2.4746	
28	6.00	-0.84	1.0956	-2.7096	0.0020	-0.0228	0.0160	0.2393	-2.4733	
29	6.01	-1.64	1.0874	-2.6791	0.1661	-0.3115	0.0160	0.2344	-2.4639	
30	6.00	-2.46	1.0895	-2.6921	0.3085	-0.5698	0.0210	0.2395	-2.4710	
31	6.04	-3.24	1.0685	-2.5927	0.4644	-0.8482	0.0250	0.2372	-2.4266	
32	6.02	-4.05	1.0919	-2.5855	0.5519	-1.1486	0.0210	0.2383	-2.3679	
33	6.02	-4.87	1.0747	-2.5424	0.6599	-1.5028	0.0210	0.2346	-2.3658	
34	6.03	-5.57	1.0653	-2.5312	0.8287	-1.8361	0.0200	0.2386	-2.3762	
35	6.05	-6.43	1.0521	-2.4188	0.9984	-2.3216	0.0170	0.2386	-2.2991	
36	6.02	-7.18	1.0253	-2.3433	1.1009	-2.6191	0.0140	0.2372	-2.2855	
37	6.02	-7.95	1.0086	-2.2769	1.2353	-2.9503	0.0150	0.2382	-2.2575	
38	6.05	-8.75	0.9998	-2.1556	1.4400	-3.4148	0.0150	0.2378	-2.1561	
39	6.03	-9.49	1.0119	-2.1655	1.6527	-3.8296	0.0210	0.2412	-2.1401	
40	6.06	-10.34	0.9809	-2.0541	1.7836	-4.2258	0.0200	0.2395	-2.0942	
41	6.06	-11.07	0.9942	-2.0018	1.9221	-4.5818	0.0210	0.2374	-2.0135	
42	6.06	-11.83	0.9772	-1.9780	2.0731	-4.9581	0.0190	0.2319	-2.0242	
43	6.04	-12.59	0.9260	-1.7623	2.3110	-5.4901	0.0110	0.2273	-1.9032	
44	6.07	-13.37	0.8818	-1.6734	2.5689	-5.9111	0.0090	0.2136	-1.8978	
45	6.05	-14.22	0.8560	-1.5393	2.6647	-6.1622	0.0110	0.2024	-1.7983	
46	6.07	-15.04	0.7783	-1.3396	2.9170	-6.5825	0.0100	0.2003	-1.7212	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	166	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	6.07	-15.83	0.8005	-1.2837	3.0398	-6.8464	0.0130	0.1929	-1.6036
48	6.07	-16.68	0.7156	-1.0048	3.2250	-7.1806	0.0340	0.1832	-1.4042
49	6.10	-17.43	0.7082	-0.9295	3.4109	-7.4908	0.0590	0.1880	-1.3125
50	6.08	-18.37	0.6565	-0.8001	3.5532	-7.5782	0.1030	0.1944	-1.2188
51	6.11	-19.14	0.6961	-0.7336	3.7088	-7.5940	0.1440	0.1893	-1.0538
52	6.10	-19.97	0.7601	-0.8122	3.8101	-7.4199	0.2600	0.1943	-1.0685
53	6.08	-20.33	0.8009	-0.9733	3.8165	-6.9019	0.3110	0.2010	-1.2152

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 166 1.01 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	LB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	6.14	19.70	-1.0017	0.0148	-0.3009	-0.0148	0.3004	0.0581	0.0297	-0.1162	0.5120	-2.0007
2	6.15	19.35	-0.9920	0.0139	-0.3044	-0.0140	0.3068	0.0673	0.0297	-0.1150	0.4412	-1.7084
3	6.15	18.61	-0.9774	0.0139	-0.2948	-0.0142	0.3067	0.0705	0.0298	-0.1173	0.4226	-1.6639
4	6.12	17.83	-0.9453	0.0144	-0.2888	-0.0152	0.3055	0.0576	0.0289	-0.1136	0.5016	-1.9723
5	6.12	16.96	-0.9159	0.0149	-0.2810	-0.0163	0.3068	0.0652	0.0287	-0.1176	0.4401	-1.8033
6	6.12	16.20	-0.9283	0.0114	-0.2680	-0.0123	0.2887	0.0888	0.0282	-0.1143	0.3181	-1.2873
7	6.12	15.41	-0.8465	0.0121	-0.2633	-0.0143	0.3110	0.0823	0.0274	-0.1154	0.3329	-1.4019
8	6.08	14.70	-0.8158	0.0118	-0.2560	-0.0145	0.3138	0.0761	0.0273	-0.1230	0.3593	-1.6168
9	6.08	13.89	-0.7537	0.0138	-0.2483	-0.0184	0.3295	0.0727	0.0268	-0.1208	0.3693	-1.6613
10	6.07	13.16	-0.7546	0.0152	-0.2302	-0.0202	0.3051	0.0720	0.0267	-0.1174	0.3715	-1.6307
11	6.07	12.39	-0.7053	0.0150	-0.2265	-0.0213	0.3212	0.0708	0.0267	-0.1245	0.3771	-1.7586
12	6.06	11.64	-0.6589	0.0147	-0.2152	-0.0224	0.3267	0.0546	0.0265	-0.1244	0.4862	-2.2785
13	6.05	10.86	-0.6227	0.0166	-0.2066	-0.0266	0.3318	0.0735	0.0264	-0.1312	0.3591	-1.7852
14	6.05	10.05	-0.5602	0.0180	-0.2010	-0.0322	0.3587	0.0544	0.0265	-0.1296	0.4537	-2.2199
15	6.04	9.24	-0.5253	0.0178	-0.1900	-0.0340	0.3618	0.0611	0.0264	-0.1296	0.4320	-2.1218
16	6.06	8.46	-0.4965	0.0184	-0.1780	-0.0371	0.3586	0.0611	0.0266	-0.1296	0.4353	-2.1218
17	6.05	7.61	-0.4502	0.0179	-0.1581	-0.0399	0.3512	0.0582	0.0268	-0.1292	0.4613	-2.2200
18	6.04	6.82	-0.4301	0.0186	-0.1476	-0.0432	0.3432	0.0383	0.0271	-0.1298	0.7074	-3.3900
19	6.03	6.13	-0.3563	0.0198	-0.1378	-0.0557	0.3868	0.0219	0.0274	-0.1336	1.2509	-6.1006
20	6.04	5.25	-0.3221	0.0184	-0.1199	-0.0573	0.3723	0.0257	0.0274	-0.1388	1.0679	-5.4022
21	6.03	4.46	-0.3107	0.0193	-0.1007	-0.0621	0.3242	0.0245	0.0272	-0.1394	1.1100	-5.6913
22	6.04	3.65	-0.2350	0.0142	-0.0912	-0.0776	0.3881	0.0187	0.0271	-0.1428	1.4489	-7.6400
23	6.02	2.95	-0.1824	0.0171	-0.0797	-0.0940	0.4368	0.0069	0.0271	-0.1437	3.9341	-20.8262
24	6.01	2.19	-0.1731	0.0162	-0.0566	-0.0939	0.3269	0.0086	0.0268	-0.1451	3.1215	-16.8761
25	6.02	1.40	-0.0860	0.0134	-0.0465	-0.1564	0.5414	-0.0265	0.0268	-0.1487	-1.0111	5.6125
26	6.01	0.67	-0.0904	0.0089	-0.0254	-0.0984	0.2812	-0.0430	0.0267	-0.1513	-0.6208	3.5193
27	6.03	-0.10	-0.0721	0.0014	-0.0009	-0.0201	0.0128	-0.0596	0.0266	-0.1553	-0.4462	2.6067
28	6.00	-0.84	0.0230	-0.0036	0.0022	-0.1565	0.0341	-0.0453	0.0265	-0.1584	-0.5860	3.4966
29	6.01	-1.64	0.0388	-0.0097	0.0262	-0.2512	0.6760	-0.0933	0.0265	-0.1594	-0.2845	1.7083
30	6.00	-2.46	0.0767	-0.0134	0.0416	-0.1753	0.5431	-0.1150	0.0260	-0.1615	-0.2265	1.4045
31	6.04	-3.24	0.1007	-0.0167	0.0625	-0.1663	0.6212	-0.1245	0.0257	-0.1651	-0.1984	1.2753
32	6.02	-4.05	0.1467	-0.0178	0.0755	-0.1217	0.5145	-0.0944	0.0250	-0.1733	-0.2648	1.8364
33	6.02	-4.87	0.2128	-0.0196	0.0887	-0.0921	0.4169	-0.1211	0.0243	-0.1777	-0.2010	1.4678
34	6.03	-5.57	0.2597	-0.0206	0.1019	-0.0795	0.3925	-0.1337	0.0230	-0.1834	-0.1724	1.3721
35	6.05	-6.43	0.2941	-0.0216	0.1221	-0.0734	0.4151	-0.1173	0.0214	-0.1975	-0.1824	1.6836
36	6.02	-7.18	0.3670	-0.0222	0.1286	-0.0605	0.3504	-0.1493	0.0196	-0.1986	-0.1326	1.3305
37	6.02	-7.95	0.3767	-0.0211	0.1458	-0.0560	0.3871	-0.1380	0.0187	-0.2120	-0.1358	1.5368
38	6.05	-8.75	0.4363	-0.0211	0.1640	-0.0483	0.3758	-0.1359	0.0167	-0.2224	-0.1232	1.6371
39	6.03	-9.49	0.4753	-0.0203	0.1768	-0.0427	0.3719	-0.1529	0.0157	-0.2296	-0.1030	1.5020
40	6.06	-10.34	0.5159	-0.0209	0.1851	-0.0406	0.3588	-0.1601	0.0145	-0.2411	-0.0906	1.5062
41	6.06	-11.07	0.5675	-0.0214	0.1923	-0.0377	0.3389	-0.1920	0.0138	-0.2441	-0.0719	1.2718
42	6.06	-11.83	0.6033	-0.0216	0.2050	-0.0358	0.3398	-0.1865	0.0126	-0.2506	-0.0675	1.3439
43	6.04	-12.59	0.6411	-0.0226	0.2205	-0.0352	0.3440	-0.1976	0.0115	-0.2600	-0.0584	1.3160
44	6.07	-13.37	0.6430	-0.0209	0.2317	-0.0325	0.3604	-0.2356	0.0101	-0.2653	-0.0431	1.1261
45	6.05	-14.22	0.7044	-0.0204	0.2315	-0.0290	0.3287	-0.2485	0.0098	-0.2653	-0.0345	0.9355
46	6.07	-15.04	0.7426	-0.0209	0.2458	-0.0281	0.3311	-0.3025	0.0088	-0.2775	-0.0291	0.9172

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		166		1.01 1.7		0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	6.07	-15.83	0.7639	-0.0207	0.2557	-0.0272	0.3348	-0.2747	0.0087	-0.2860	-0.0318	1.0410	
48	6.07	-16.68	0.7824	-0.0213	0.2750	-0.0272	0.3515	-0.3263	0.0076	-0.2935	-0.0234	0.8994	
49	6.10	-17.43	0.8462	-0.0223	0.2785	-0.0264	0.3291	-0.3390	0.0071	-0.3039	-0.0211	0.8965	
50	6.08	-18.37	0.8947	-0.0226	0.2896	-0.0252	0.3237	-0.3606	0.0068	-0.3172	-0.0188	0.8797	
51	6.11	-19.14	0.8989	-0.0230	0.3030	-0.0256	0.3371	-0.3163	0.0055	-0.3183	-0.0175	1.0061	
52	6.10	-19.97	1.0040	-0.0192	0.3073	-0.0192	0.3060	-0.4531	0.0074	-0.3485	-0.0164	0.7692	
53	6.08	-20.33	0.9836	-0.0198	0.3142	-0.0202	0.3194	-0.3786	0.0069	-0.3373	-0.0183	0.8909	

PAGE 3 OF 3
 SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	OEL3	OEL4	TRANSITION		
6	166	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	6.14	19.70	-1.1235	-0.0192	-0.4348	0.0171	0.3870	-0.2223	-0.0360	-0.0224	0.1621	0.1006
2	6.15	19.35	-1.1537	-0.0112	-0.4465	0.0097	0.3870	-0.1817	-0.0310	-0.0475	0.1706	0.2617
3	6.15	18.61	-1.1309	-0.0075	-0.4516	0.0067	0.3993	-0.2159	-0.0336	-0.0351	0.1556	0.1628
4	6.12	17.83	-1.1218	-0.0061	-0.4496	0.0054	0.4008	-0.1621	-0.0414	-0.0039	0.2557	0.0241
5	6.12	16.96	-1.1097	-0.0025	-0.4493	0.0023	0.4048	-0.1225	-0.0459	0.0131	0.3746	-0.1068
6	6.12	16.20	-1.0922	0.0023	-0.4463	-0.0021	0.4086	-0.1245	-0.0406	0.0011	0.3260	-0.0090
7	6.12	15.41	-1.0611	0.0044	-0.4386	-0.0042	0.4133	-0.0424	-0.0448	0.0164	1.0564	-0.3861
8	6.08	14.70	-1.0222	0.0050	-0.4285	-0.0049	0.4192	-0.0255	-0.0442	0.0339	1.7330	-1.3295
9	6.08	13.89	-1.0013	0.0042	-0.4106	-0.0042	0.4101	0.0552	-0.0457	0.0551	-0.8278	0.9981
10	6.07	13.16	-0.9217	0.0042	-0.4050	-0.0046	0.4394	0.0492	-0.0443	0.0640	-0.9013	1.3007
11	6.07	12.39	-0.8521	0.0028	-0.3862	-0.0033	0.4532	0.0659	-0.0433	0.0817	-0.6577	1.2407
12	6.06	11.64	-0.7999	0.0012	-0.3689	-0.0016	0.4612	0.1187	-0.0414	0.0789	-0.3487	0.6651
13	6.05	10.86	-0.7591	-0.0004	-0.3456	0.0006	0.4553	0.1489	-0.0404	0.0997	-0.2716	0.6697
14	6.05	10.05	-0.6953	-0.0002	-0.3310	0.0003	0.4760	0.2041	-0.0389	0.1017	-0.1906	0.4983
15	6.04	9.24	-0.6358	-0.0018	-0.3134	0.0028	0.4930	0.2265	-0.0359	0.1098	-0.1585	0.4846
16	6.06	8.46	-0.5758	-0.0023	-0.3004	0.0041	0.5218	0.2457	-0.0333	0.1149	-0.1355	0.4679
17	6.05	7.61	-0.5078	-0.0035	-0.2718	0.0069	0.5352	0.2742	-0.0294	0.1195	-0.1074	0.4361
18	6.04	6.82	-0.4727	-0.0047	-0.2463	0.0100	0.5210	0.2986	-0.0254	0.1266	-0.0852	0.4239
19	6.03	6.13	-0.4147	-0.0058	-0.2175	0.0140	0.5244	0.3106	-0.0202	0.1294	-0.0652	0.4166
20	6.04	5.25	-0.3330	-0.0069	-0.1564	0.0207	0.5896	0.3246	-0.0158	0.1331	-0.0479	0.4039
21	6.03	4.46	-0.2529	-0.0078	-0.1699	0.0310	0.6721	0.3393	-0.0138	0.1436	-0.0407	0.4231
22	6.04	3.65	-0.2018	-0.0077	-0.1424	0.0381	0.7059	0.3756	-0.0097	0.1400	-0.0258	0.3726
23	6.02	2.95	-0.1445	-0.0060	-0.1174	0.0419	0.8128	0.3357	-0.0078	0.1595	-0.0234	0.4750
24	6.01	2.19	-0.1176	-0.0047	-0.0845	0.0400	0.7184	0.4003	-0.0062	0.1513	-0.0156	0.3779
25	6.02	1.40	-0.0644	-0.0039	-0.0653	0.0613	1.0149	0.3816	-0.0053	0.1581	-0.0139	0.4142
26	6.01	0.67	0.0091	-0.0045	-0.0540	-0.4999	-5.9305	0.3870	-0.0041	0.1594	-0.0107	0.4117
27	6.03	-0.10	0.0505	-0.0046	-0.0246	-0.0911	-0.4886	0.3749	-0.0041	0.1705	-0.0109	0.4548
28	6.00	-0.84	0.0929	-0.0046	-0.0052	-0.0495	-0.0565	0.4658	-0.0035	0.1600	-0.0076	0.3435
29	6.01	-1.64	0.1427	-0.0031	0.0212	-0.0217	0.1489	0.4426	-0.0031	0.1644	-0.0071	0.3714
30	6.00	-2.46	0.1705	-0.0032	0.0431	-0.0188	0.2529	0.4433	-0.0040	0.1725	-0.0090	0.3891
31	6.04	-3.24	0.2254	-0.0025	0.0668	-0.0111	0.2954	0.4371	-0.0027	0.1759	-0.0063	0.4025
32	6.02	-4.05	0.2447	-0.0009	0.1614	-0.0039	0.4145	0.4107	-0.0023	0.1847	-0.0056	0.4496
33	6.02	-4.87	0.3333	0.0004	0.1145	0.0013	0.3446	0.4362	-0.0023	0.1762	-0.0054	0.4040
34	6.03	-5.57	0.3963	0.0021	0.1386	0.0054	0.3496	0.4774	-0.0024	0.1737	-0.0050	0.3638
35	6.05	-6.43	0.4424	0.0023	0.1722	0.0052	0.3693	0.4380	-0.0016	0.1763	-0.0041	0.4026
36	6.02	-7.18	0.5040	0.0026	0.1955	0.0053	0.3880	0.4681	-0.0022	0.1724	-0.0047	0.3682
37	6.02	-7.95	0.5488	0.0029	0.2201	0.0053	0.4010	0.4403	-0.0023	0.1816	-0.0052	0.4125
38	6.05	-8.75	0.6396	0.0024	0.2388	0.0036	0.3620	0.4713	-0.0041	0.1733	-0.0088	0.3678
39	6.03	-9.49	0.6708	0.0025	0.2681	0.0037	0.3997	0.4696	-0.0052	0.1795	-0.0111	0.3822
40	6.06	-10.34	0.7482	0.0019	0.2882	0.0026	0.3852	0.4699	-0.0044	0.1798	-0.0094	0.3826
41	6.06	-11.07	0.8183	0.0022	0.3047	0.0027	0.3724	0.4542	-0.0056	0.1913	-0.0124	0.4213
42	6.06	-11.83	0.8853	0.0021	0.3235	0.0024	0.3654	0.4759	-0.0059	0.1887	-0.0125	0.3965
43	6.04	-12.59	0.9392	0.0027	0.3449	0.0029	0.3672	0.4724	-0.0052	0.1806	-0.0110	0.3823
44	6.07	-13.37	0.9818	0.0026	0.3672	0.0027	0.3740	0.4566	-0.0059	0.1880	-0.0130	0.4118
45	6.05	-14.22	1.0337	0.0021	0.3799	0.0021	0.3676	0.4571	-0.0056	0.1819	-0.0122	0.3980
46	6.07	-15.04	1.0784	0.0031	0.4003	0.0029	0.3714	0.4477	-0.0055	0.1832	-0.0123	0.4091

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 166 1.01 1.7 0.0 82NOF12 0.0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	6.07	-15.83	1.1462	0.0045	0.4070	0.0040	0.3551	0.4624	-0.0042	0.1851	-0.0092	0.4002
48	6.07	-16.68	1.1448	0.0095	0.4055	0.0079	0.3394	0.4591	-0.0033	0.1760	-0.0072	0.3833
49	6.10	-17.43	1.2043	0.0163	0.4082	0.0136	0.3389	0.4432	-0.0015	0.1786	-0.0034	0.4029
50	6.08	-18.37	1.1995	0.0271	0.3963	0.0226	0.3304	0.4364	0.0005	0.1778	0.0011	0.4074
51	6.11	-19.14	1.1927	0.0321	0.3704	0.0269	0.3106	0.4429	0.0008	0.1789	0.0019	0.4039
52	6.10	-19.97	1.0947	0.0410	0.3379	0.0374	0.3086	0.4522	0.0040	0.1766	0.0090	0.3949
53	6.08	-20.33	0.9592	0.0341	0.3016	0.0356	0.3145	0.4451	0.0042	0.1818	0.0095	0.4085

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	167	1.01	1.7	0.0	BZWO12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	9.13	19.70	1.3366	-1.8863	-3.8494	6.9979	-0.1800	0.1006	-1.4112	
2	9.11	19.25	1.3891	-1.8678	-3.8968	7.0503	-0.1720	0.0923	-1.3446	
3	9.13	18.55	1.3659	-1.9273	-3.8761	7.1313	-0.1600	0.0684	-1.4110	
4	9.14	17.76	1.4337	-1.8952	-3.7600	7.1818	-0.1620	0.0871	-1.3219	
5	9.13	16.91	1.3838	-1.9923	-3.5814	6.9827	-0.1130	0.0830	-1.4397	
6	9.10	16.11	1.3491	-1.9788	-3.4809	6.8931	-0.0670	0.0802	-1.4667	
7	9.09	15.38	1.4204	-2.1926	-3.2567	6.6431	-0.0660	0.0913	-1.5436	
8	9.11	14.67	1.4436	-2.3850	-3.1394	6.4279	-0.0330	0.0933	-1.6521	
9	9.07	13.86	1.4589	-2.5614	-2.8927	6.0965	-0.0190	0.1028	-1.7557	
10	9.07	13.13	1.4875	-2.6684	-2.7634	5.8785	0.0050	0.1092	-1.7939	
11	9.09	12.34	1.5163	-2.8497	-2.5203	5.4671	0.0090	0.1135	-1.8794	
12	9.07	11.61	1.5218	-2.9804	-2.3950	5.1517	0.0140	0.1267	-1.9545	
13	9.08	10.82	1.5557	-3.1418	-2.1946	4.7982	0.0220	0.1261	-2.0196	
14	9.06	10.01	1.5865	-3.2939	-1.9740	4.3934	0.0160	0.1312	-2.0762	
15	9.06	9.20	1.5796	-3.3923	-1.8444	4.0206	0.0170	0.1430	-2.1476	
16	9.04	8.37	1.5825	-3.4263	-1.7666	3.8520	0.0230	0.1469	-2.1651	
17	9.05	7.58	1.5882	-3.5193	-1.4664	3.2774	0.0310	0.1516	-2.2159	
18	9.05	6.83	1.6302	-3.6811	-1.3575	2.9324	0.0240	0.1709	-2.2581	
19	9.03	5.98	1.6024	-3.6612	-1.1588	2.5983	0.0250	0.1698	-2.2848	
20	9.04	5.21	1.6445	-3.8371	-1.0082	2.1903	0.0130	0.1790	-2.3333	
21	9.03	4.38	1.6324	-3.8471	-0.8187	1.7681	0.0080	0.1828	-2.3568	
22	9.02	3.64	1.6447	-3.8843	-0.7311	1.4535	0.0060	0.1803	-2.3618	
23	9.01	2.87	1.6450	-3.9688	-0.5435	1.1039	0.0020	0.1835	-2.4126	
24	9.02	2.08	1.6397	-4.0183	-0.4290	0.8136	0.0040	0.1875	-2.4507	
25	9.03	1.32	1.6691	-4.0345	-0.3124	0.6083	0.0120	0.1972	-2.4202	
26	8.99	0.62	1.6480	-4.1129	-0.1912	0.3976	0.0140	0.2116	-2.4957	
27	9.01	-0.18	1.6789	-4.1552	-0.1502	0.2312	0.0160	0.2025	-2.4750	
28	8.99	-0.94	1.6395	-4.0570	-0.0056	0.0268	0.0170	0.2001	-2.4746	
29	9.00	-1.78	1.6730	-4.0789	0.0999	-0.1558	0.0180	0.2038	-2.4381	
30	9.00	-2.53	1.6752	-4.0540	0.3251	-0.4407	0.0230	0.1885	-2.4230	
31	9.01	-3.36	1.6557	-3.9857	0.3632	-0.6604	0.0290	0.1626	-2.4073	
32	9.02	-4.18	1.6431	-3.9591	0.4363	-0.9338	0.0280	0.1792	-2.4096	
33	9.00	-4.93	1.6355	-3.9815	0.6002	-1.3152	0.0300	0.1799	-2.4344	
34	9.03	-5.66	1.6366	-3.9740	0.7567	-1.6383	0.0210	0.1877	-2.4202	
35	9.00	-6.40	1.6710	-3.8598	0.9903	-2.1847	0.0170	0.1850	-2.3749	
36	9.02	-7.36	1.6468	-3.8703	1.1107	-2.5438	0.0120	0.1673	-2.3502	
37	9.03	-8.07	1.6094	-3.6810	1.2737	-2.9181	0.0130	0.1714	-2.2909	
38	9.04	-8.85	1.6118	-3.6873	1.4978	-3.2788	0.0130	0.1638	-2.2877	
39	9.05	-9.67	1.5883	-3.5174	1.6066	-3.7720	0.0230	0.2009	-2.2146	
40	9.05	-10.43	1.5671	-3.4178	1.8052	-4.0660	0.0290	0.2113	-2.1810	
41	9.05	-11.19	1.5682	-3.2723	1.9544	-4.4600	0.0480	0.2222	-2.0867	
42	9.08	-11.98	1.5593	-3.1029	2.1352	-4.8051	0.0650	0.2349	-1.9899	
43	9.07	-12.66	1.5724	-3.0112	2.2582	-5.1292	0.0850	0.2341	-1.9151	
44	9.08	-13.49	1.5532	-2.9134	2.4954	-5.5223	0.0860	0.2302	-1.8757	
45	9.08	-14.33	1.5235	-2.7868	2.5829	-5.8377	0.0990	0.2275	-1.8292	
46	9.10	-15.16	1.4769	-2.6366	2.8406	-6.1646	0.0900	0.2249	-1.7852	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		167	1.01 1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CV	CLN	CLL	CAF	XCP		
47	9.10	-15.95	1.4350	-2.4870	3.0312	-6.5124	0.0770	0.2144	-1.7331		
48	9.11	-16.81	1.4231	-2.3333	3.1664	-6.7936	0.1190	0.2155	-1.6396		
49	9.12	-17.59	1.4294	-2.2701	3.3295	-6.9979	0.1410	0.2065	-1.5882		
50	9.12	-18.41	1.3607	-2.0320	3.5126	-7.1744	0.1400	0.2069	-1.4933		
51	9.12	-19.24	1.3660	-2.0534	3.6490	-7.0654	0.1790	0.2094	-1.5032		
52	9.13	-20.01	1.4156	-1.9949	3.7244	-6.7450	0.2940	0.2251	-1.4092		
53	9.14	-20.49	1.4650	-1.9830	3.8160	-6.5582	0.3500	0.2330	-1.3536		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RATIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	167	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	9.13	19.70	-0.8984	0.0208	-0.2762	-0.0232	0.3074	0.2708	0.0286	-0.0473	0.1058	-0.1745
2	9.11	19.25	-0.8508	0.0227	-0.2684	-0.0255	0.3019	0.2923	0.0282	-0.0481	0.0966	-0.1644
3	9.13	18.55	-0.8565	0.0218	-0.2765	-0.0254	0.3228	0.2776	0.0286	-0.0482	0.1032	-0.1734
4	9.14	17.76	-0.8451	0.0215	-0.2705	-0.0254	0.3201	0.2896	0.0286	-0.0482	0.0987	-0.1663
5	9.13	16.91	-0.8420	0.0242	-0.2484	-0.0287	0.2950	0.3100	0.0281	-0.0493	0.0908	-0.1589
6	9.10	16.11	-0.7615	0.0253	-0.2517	-0.0332	0.3306	0.2967	0.0281	-0.0527	0.0947	-0.1776
7	9.09	15.38	-0.7489	0.0265	-0.2392	-0.0354	0.3195	0.3000	0.0281	-0.0510	0.0936	-0.1700
8	9.11	14.67	-0.7495	0.0270	-0.2204	-0.0360	0.2941	0.2778	0.0280	-0.0495	0.1007	-0.1781
9	9.07	13.86	-0.6491	0.0270	-0.2270	-0.0416	0.3497	0.2694	0.0277	-0.0521	0.1028	-0.1935
10	9.07	13.13	-0.6272	0.0289	-0.2129	-0.0461	0.3394	0.2853	0.0279	-0.0553	0.0977	-0.1938
11	9.09	12.34	-0.5775	0.0306	-0.2021	-0.0531	0.3500	0.2846	0.0274	-0.0552	0.0964	-0.1940
12	9.07	11.61	-0.5658	0.0316	-0.1911	-0.0559	0.3378	0.2858	0.0274	-0.0591	0.0960	-0.2068
13	9.08	10.82	-0.5216	0.0324	-0.1790	-0.0622	0.3432	0.2652	0.0271	-0.0590	0.1022	-0.2226
14	9.06	10.01	-0.4765	0.0327	-0.1756	-0.0687	0.3685	0.2858	0.0270	-0.0640	0.0946	-0.2240
15	9.06	9.20	-0.4345	0.0336	-0.1641	-0.0773	0.3776	0.2736	0.0270	-0.0674	0.0987	-0.2465
16	9.04	8.37	-0.4075	0.0338	-0.1517	-0.0830	0.3722	0.2596	0.0268	-0.0680	0.1032	-0.2619
17	9.05	7.58	-0.3298	0.0342	-0.1361	-0.1036	0.4126	0.2544	0.0264	-0.0701	0.1038	-0.2757
18	9.05	6.83	-0.3374	0.0343	-0.1208	-0.1016	0.3581	0.2722	0.0263	-0.0730	0.0966	-0.2682
19	9.03	5.98	-0.2558	0.0349	-0.1166	-0.1366	0.4560	0.2437	0.0263	-0.0762	0.1081	-0.3127
20	9.04	5.21	-0.2163	0.0359	-0.1034	-0.1659	0.4779	0.2630	0.0263	-0.0806	0.1002	-0.3067
21	9.03	4.38	-0.2037	0.0345	-0.0920	-0.1696	0.4515	0.2133	0.0267	-0.0806	0.1254	-0.3780
22	9.02	3.64	-0.1313	0.0352	-0.0850	-0.2680	0.6478	0.1795	0.0272	-0.0840	0.1518	-0.4679
23	9.01	2.87	-0.1257	0.0337	-0.0602	-0.2681	0.4788	0.1735	0.0272	-0.0863	0.1570	-0.4973
24	9.02	2.08	-0.1072	0.0278	-0.0470	-0.2593	0.4386	0.1519	0.0270	-0.0899	0.1780	-0.5917
25	9.03	1.32	-0.0806	0.0180	-0.0277	-0.2233	0.3431	0.1299	0.0273	-0.0943	0.2105	-0.7261
26	8.99	0.62	-0.0271	0.0089	-0.0194	-0.3284	0.7170	0.1120	0.0275	-0.0976	0.2455	-0.8712
27	9.01	-0.18	-0.0454	0.0015	-0.0042	-0.0341	0.0931	0.1144	0.0276	-0.1068	0.2417	-0.9334
28	8.99	-0.94	0.0068	-0.0046	-0.0020	-0.6837	-0.2991	0.0762	0.0276	-0.1133	0.3621	-1.4870
29	9.00	-1.78	0.0096	-0.0133	0.0152	-1.3904	1.5832	0.0689	0.0276	-0.1227	0.4012	-1.7814
30	9.00	-2.53	0.0373	-0.0221	0.0339	-0.5937	0.9096	0.0519	0.0271	-0.1265	0.5221	-2.4375
31	9.01	-3.36	0.0469	-0.0300	0.0533	-0.6395	1.1371	0.0330	0.0266	-0.1344	0.8059	-4.0728
32	9.02	-4.18	0.1129	-0.0340	0.0574	-0.3011	0.5130	0.0095	0.0263	-0.1394	2.7732	-14.6773
33	9.00	-4.93	0.1428	-0.0349	0.0797	-0.2444	0.5580	0.0083	0.0259	-0.1472	3.1259	-17.7391
34	9.03	-5.66	0.1719	-0.0347	0.0893	-0.2018	0.5194	0.0242	0.0250	-0.1557	1.0329	-6.4354
35	9.00	-6.48	0.2515	-0.0338	0.0962	-0.1346	0.3825	0.0235	0.0238	-0.1650	1.0147	-7.0242
36	9.02	-7.36	0.2563	-0.0333	0.1120	-0.1301	0.4370	0.0269	0.0228	-0.1735	0.8493	-6.4512
37	9.03	-8.07	0.3069	-0.0326	0.1298	-0.1062	0.4228	0.0126	0.0210	-0.1833	1.6664	-14.5477
38	9.04	-8.85	0.3445	-0.0316	0.1390	-0.0918	0.4034	-0.0092	0.0197	-0.1903	-2.1409	20.6919
39	9.05	-9.67	0.3932	-0.0326	0.1554	-0.0830	0.3953	-0.0359	0.0180	-0.2017	-0.5013	5.6201
40	9.05	-10.43	0.4483	-0.0325	0.1684	-0.0726	0.3756	-0.0403	0.0168	-0.2131	-0.4168	5.2885
41	9.05	-11.19	0.4745	-0.0312	0.1828	-0.0658	0.3853	-0.0860	0.0157	-0.2267	-0.1831	2.6367
42	9.08	-11.98	0.5588	-0.0307	0.1508	-0.0549	0.3414	-0.1311	0.0149	-0.2380	-0.1136	1.8161
43	9.07	-12.66	0.5633	-0.0307	0.2125	-0.0545	0.3772	-0.1654	0.0145	-0.2480	-0.0880	1.4995
44	9.08	-13.49	0.6240	-0.0306	0.2185	-0.0491	0.3502	-0.1636	0.0136	-0.2581	-0.0831	1.5777
45	9.08	-14.33	0.6280	-0.0295	0.2282	-0.0470	0.3633	-0.1903	0.0129	-0.2682	-0.0678	1.4094
46	9.10	-15.16	0.6911	-0.0306	0.2323	-0.0443	0.3361	-0.1954	0.0118	-0.2689	-0.0606	1.3762

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	167	1.01 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	9.10	-15.95	0.6760	-0.0289	0.2470	-0.0427	0.3655	-0.1997	0.0116	-0.2778	-0.0583	1.3913
48	9.11	-16.81	0.7668	-0.0270	0.255C	-0.0352	0.3326	-0.2658	0.0114	-0.2936	-0.0431	1.1048
49	9.12	-17.59	0.8096	-0.0262	0.2558	-0.0324	0.3159	-0.2698	0.0112	-0.3022	-0.0415	1.1205
50	9.12	-18.41	0.8052	-0.0253	0.2702	-0.0315	0.3356	-0.2743	0.0108	-0.2948	-0.0394	1.0737
51	9.12	-19.24	0.8949	-0.0246	0.2720	-0.0275	0.3039	-0.2615	0.0085	-0.3056	-0.0325	1.1688
52	9.13	-20.01	0.9192	-0.0249	0.2864	-0.0271	0.3116	-0.3257	0.0097	-0.3156	-0.0298	0.9689
53	9.14	-20.49	0.9256	-0.0258	0.2978	-0.0279	0.3218	-0.3584	0.0115	-0.3238	-0.0322	0.9034

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACT RX10-6		PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		167 1.01 1.7		0.0 B2HOF12		0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XC PF3	YCPF3	CNF4	CH4	CB4	XC PF4	YCPF4
1	9.13	19.70	-1.1353	-0.0262	-0.4077	0.0231	0.3591	0.0549	-0.0440	0.0442	-0.8013	0.8050
2	9.11	19.25	-1.1017	-0.0263	-0.4086	0.0239	0.3709	-0.0077	-0.0435	0.0628	5.6483	-8.1603
3	9.13	18.55	-1.1136	-0.0239	-0.4279	0.0215	0.3842	0.0030	-0.0452	0.0505	-15.0640	16.8332
4	9.14	17.76	-1.1648	-0.0137	-0.4392	0.0118	0.3771	-0.0314	-0.0343	0.0309	1.0938	-0.9853
5	9.13	16.91	-1.1262	-0.0086	-0.4515	0.0076	0.4009	0.0246	-0.0382	0.0594	-1.5546	2.4145
6	9.10	16.11	-1.1631	-0.0042	-0.4406	0.0036	0.3789	0.0665	-0.0401	0.0676	-0.6037	1.0174
7	9.09	15.38	-1.0835	0.0006	-0.4479	-0.0006	0.4134	0.0873	-0.0394	0.0725	-0.4518	0.8304
8	9.11	14.67	-1.0735	0.0025	-0.4402	-0.0023	0.4101	0.1155	-0.0425	0.0951	-0.3679	0.8233
9	9.07	13.86	-1.0145	0.0034	-0.4246	-0.0034	0.4186	0.1767	-0.0425	0.0953	-0.2408	0.5392
10	9.07	13.13	-0.9744	0.0030	-0.4159	-0.0031	0.4268	0.2264	-0.0439	0.1075	-0.1941	0.4750
11	9.09	12.34	-0.8751	0.0016	-0.4028	-0.0019	0.4603	0.2345	-0.0437	0.1318	-0.1865	0.5622
12	9.07	11.61	-0.8349	0.0012	-0.3822	-0.0014	0.4578	0.2590	-0.0417	0.1349	-0.1610	0.5209
13	9.08	10.82	-0.8042	-0.0009	-0.3617	0.0011	0.4498	0.3075	-0.0403	0.1432	-0.1310	0.4655
14	9.06	10.01	-0.7432	-0.0015	-0.3434	0.0021	0.4621	0.3516	-0.0374	0.1402	-0.1065	0.3586
15	9.06	9.20	-0.6590	-0.0028	-0.3225	0.0043	0.4893	0.3379	-0.0352	0.1611	-0.1043	0.4767
16	9.04	8.37	-0.6283	-0.0025	-0.3048	0.0041	0.4852	0.3915	-0.0323	0.1582	-0.0825	0.4040
17	9.05	7.58	-0.5693	-0.0038	-0.2699	0.0068	0.4741	0.3993	-0.0277	0.1691	-0.0693	0.4233
18	9.05	6.83	-0.4568	-0.0041	-0.2610	0.0091	0.5713	0.4424	-0.0249	0.1736	-0.0564	0.3924
19	9.03	5.98	-0.4198	-0.0049	-0.2298	0.0118	0.5473	0.4602	-0.0199	0.1782	-0.0433	0.3873
20	9.04	5.21	-0.3187	-0.0041	-0.2022	0.0129	0.6343	0.4688	-0.0159	0.1885	-0.0340	0.4021
21	9.03	4.38	-0.2617	-0.0048	-0.1715	0.0105	0.6553	0.4986	-0.0133	0.1898	-0.0268	0.3807
22	9.02	3.64	-0.2005	-0.0048	-0.1467	0.0242	0.7317	0.5212	-0.0104	0.1920	-0.0200	0.3683
23	9.01	2.87	-0.1469	-0.0050	-0.1184	0.0344	0.8063	0.5571	-0.0086	0.1952	-0.0154	0.3504
24	9.02	2.08	-0.0665	-0.0348	-0.0937	0.0722	1.4099	0.5899	-0.0075	0.1958	-0.0127	0.3319
25	9.03	1.32	-0.0305	-0.0043	-0.0707	0.1426	2.3168	0.5769	-0.0061	0.2064	-0.0106	0.3578
26	8.99	0.62	0.0155	-0.0045	-0.0474	-0.2935	-3.0603	0.5796	-0.0057	0.2212	-0.0098	0.3817
27	9.01	-0.18	0.0507	-0.0052	-0.0226	-0.1025	-0.4459	0.6010	-0.0055	0.2324	-0.0092	0.3866
28	8.99	-0.94	0.0679	-0.0052	0.0038	-0.0773	0.0563	0.6319	-0.0049	0.2279	-0.0078	0.3606
29	9.00	-1.78	0.1365	-0.0040	0.0315	-0.0293	0.2307	0.6050	-0.0056	0.2456	-0.0093	0.4059
30	9.00	-2.53	0.1583	-0.0037	0.0558	-0.0234	0.3528	0.6533	-0.0045	0.2407	-0.0070	0.3684
31	9.01	-3.36	0.2283	-0.0017	0.0731	-0.0077	0.3201	0.6650	-0.0058	0.2469	-0.0088	0.3713
32	9.02	-4.18	0.2960	0.0000	0.0994	0.0002	0.3359	0.6684	-0.0051	0.2502	-0.0077	0.3744
33	9.00	-4.93	0.3676	0.0000	0.1284	0.0001	0.3493	0.6784	-0.0047	0.2550	-0.0069	0.3760
34	9.03	-5.66	0.4170	0.0014	0.1527	0.0034	0.3661	0.7167	-0.0053	0.2516	-0.0074	0.3511
35	9.00	-6.48	0.4997	0.0015	0.1812	0.0031	0.3626	0.6961	-0.0073	0.2594	-0.0105	0.3727
36	9.02	-7.36	0.5714	0.0008	0.2101	0.0014	0.3677	0.7298	-0.0063	0.2563	-0.0086	0.3512
37	9.03	-8.07	0.6312	0.0021	0.2297	0.0034	0.3639	0.6828	-0.0062	0.2658	-0.0091	0.3893
38	9.04	-8.85	0.6764	0.0028	0.2545	0.0041	0.3768	0.7236	-0.0053	0.2574	-0.0073	0.3557
39	9.05	-9.67	0.7478	0.0032	0.2862	0.0043	0.3808	0.7109	-0.0053	0.2686	-0.0075	0.3788
40	9.05	-10.43	0.8119	0.0028	0.3069	0.0035	0.3780	0.7305	-0.0046	0.2677	-0.0064	0.3665
41	9.05	-11.19	0.8273	0.0019	0.3297	0.0024	0.3985	0.7066	-0.0052	0.2741	-0.0074	0.3880
42	9.08	-11.98	0.9295	0.0015	0.3376	0.0017	0.3632	0.7387	-0.0047	0.2685	-0.0064	0.3635
43	9.07	-12.66	0.9944	0.0014	0.3564	0.0014	0.3584	0.7458	-0.0034	0.2733	-0.0046	0.3665
44	9.08	-13.49	1.0310	0.0015	0.3768	0.0015	0.3655	0.7073	-0.0039	0.2720	-0.0056	0.3845
45	9.08	-14.33	1.0655	0.0019	0.3922	0.0018	0.3681	0.7419	-0.0039	0.2683	-0.0053	0.3617
46	9.10	-15.16	1.1291	0.0032	0.4094	0.0028	0.3626	0.7463	-0.0041	0.2664	-0.0056	0.3589

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 167 1.01 1.7 0.0 82NOF12 0.0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	9.10	-15.95	1.1740	0.0038	0.4220	0.0052	0.3594	0.7634	-0.0042	0.2619	-0.0056	0.3430
48	9.11	-16.81	1.1985	0.0067	0.4263	0.0056	0.3557	0.7194	-0.0027	0.2728	-0.0038	0.3792
49	9.12	-17.59	1.2520	0.0125	0.4268	0.0100	0.3409	0.7461	-0.0014	0.2658	-0.0019	0.3563
50	9.12	-18.41	1.2567	0.0192	0.4212	0.0153	0.3352	0.7264	-0.0029	0.2653	-0.0040	0.3653
51	9.12	-19.24	1.2424	0.0295	0.3931	0.0237	0.3164	0.7714	-0.0009	0.2628	-0.0012	0.3407
52	9.13	-20.01	1.1679	0.0356	0.3487	0.0305	0.2985	0.7614	-0.0004	0.2642	-0.0005	0.3470
53	9.14	-20.49	1.1197	0.0336	0.3271	0.0300	0.2921	0.7291	0.0012	0.2677	0.0016	0.3672

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	168	1.01	1.7	0.0	82W012	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	12.22	19.46	2.2142	-2.7209	-3.9930	6.0871	-0.2160	0.1486	-1.2289	
2	12.22	19.19	2.1471	-2.8140	-3.9242	6.1678	-0.1810	0.1354	-1.3106	
3	12.20	18.43	2.1486	-2.7961	-3.7971	6.0148	-0.1810	0.1444	-1.3013	
4	12.18	17.59	2.0732	-2.6476	-3.7639	6.1544	-0.1410	0.1309	-1.2770	
5	12.18	16.84	2.0793	-2.8681	-3.6357	6.1379	-0.1280	0.1245	-1.3793	
6	12.18	16.02	2.0567	-2.9254	-3.4188	5.5531	-0.0820	0.1236	-1.4224	
7	12.16	15.27	2.1246	-3.2234	-3.1995	5.8011	-0.0500	0.1277	-1.5172	
8	12.15	14.58	2.0410	-3.3644	-3.0758	5.7289	-0.0100	0.1273	-1.6484	
9	12.15	13.75	2.1201	-3.6481	-2.8547	5.4534	0.0170	0.1313	-1.7207	
10	12.12	12.99	2.0919	-3.8466	-2.7248	5.1756	0.0250	0.1372	-1.8388	
11	12.09	12.20	2.1258	-4.0140	-2.5457	4.9058	0.0380	0.1294	-1.8882	
12	12.10	11.50	2.1412	-4.1955	-2.3379	4.5809	0.0860	0.1504	-1.9594	
13	12.09	10.65	2.1756	-4.3357	-2.1958	4.3430	0.0700	0.1461	-1.9929	
14	12.08	9.92	2.2102	-4.4781	-1.9000	3.8288	0.0540	0.1470	-2.0261	
15	12.08	9.09	2.1711	-4.5644	-1.7519	3.4855	0.0620	0.1551	-2.1023	
16	12.06	8.29	2.2102	-4.7081	-1.6136	3.1149	0.0600	0.1656	-2.1301	
17	12.06	7.45	2.2206	-4.8046	-1.4108	2.7600	0.0610	0.1634	-2.1637	
18	12.07	6.68	2.2291	-4.8795	-1.2769	2.3586	0.0620	0.1751	-2.1890	
19	12.08	5.88	2.2236	-4.9638	-1.0186	2.0419	0.0510	0.1754	-2.2323	
20	12.06	5.08	2.2795	-5.1320	-0.9266	1.5932	0.0430	0.1752	-2.2514	
21	12.02	4.25	2.2609	-5.1500	-0.8066	1.3882	0.0290	0.1743	-2.2779	
22	12.04	3.48	2.2733	-5.2034	-0.6275	1.0225	0.0300	0.1769	-2.2889	
23	12.02	2.73	2.2403	-5.1892	-0.4494	0.7632	0.0160	0.1811	-2.3163	
24	12.05	2.00	2.2571	-5.2257	-0.3823	0.5162	0.0230	0.1889	-2.3152	
25	12.02	1.17	2.2629	-5.2138	-0.2430	0.4031	0.0290	0.2057	-2.3040	
26	12.05	0.46	2.2335	-5.2076	-0.2199	0.3590	0.0240	0.2012	-2.3316	
27	12.01	-0.30	2.2478	-5.2517	-0.0560	0.2034	0.0140	0.2137	-2.3363	
28	12.04	-1.04	2.2545	-5.1990	0.0829	0.0209	0.0130	0.2174	-2.3061	
29	12.03	-1.88	2.2466	-5.1930	0.1206	-0.0448	0.0050	0.2169	-2.3115	
30	12.04	-2.69	2.2846	-5.2792	0.1841	-0.1607	0.0300	0.2117	-2.3108	
31	12.02	-3.53	2.2655	-5.2004	0.3474	-0.4453	0.0300	0.1998	-2.2955	
32	12.03	-4.27	2.2150	-5.1757	0.4939	-0.6995	0.0110	0.1950	-2.3367	
33	12.03	-5.11	2.2283	-5.1744	0.6820	-1.0308	-0.0090	0.2020	-2.3221	
34	12.02	-5.82	2.2183	-5.0734	0.7846	-1.3714	-0.0310	0.2136	-2.2870	
35	12.04	-6.63	2.2199	-5.0246	0.9010	-1.7573	-0.0210	0.2154	-2.2634	
36	12.04	-7.38	2.2054	-4.9783	1.1251	-2.0610	-0.0360	0.2231	-2.2573	
37	12.03	-8.22	2.1867	-4.8692	1.2603	-2.4024	-0.0200	0.2166	-2.2267	
38	12.04	-8.97	2.1894	-4.7320	1.3886	-2.7710	-0.0090	0.2070	-2.1613	
39	12.05	-9.82	2.2234	-4.6796	1.6359	-3.2201	-0.0150	0.2041	-2.1047	
40	12.05	-10.55	2.1466	-4.5221	1.8195	-3.5951	-0.0090	0.2050	-2.1066	
41	12.06	-11.30	2.1388	-4.3612	1.9521	-3.8798	0.0	0.2076	-2.0391	
42	12.09	-12.08	2.1539	-4.2073	2.1436	-4.3239	0.0240	0.2026	-1.9533	
43	12.10	-12.88	2.1515	-4.0540	2.2763	-4.6126	0.0510	0.2066	-1.8842	
44	12.10	-13.62	2.1594	-4.0400	2.4290	-4.9138	0.0810	0.2107	-1.8709	
45	12.12	-14.46	2.1969	-3.9636	2.6954	-5.3304	0.1250	0.1947	-1.8041	
46	12.12	-15.31	2.2400	-3.8679	2.7313	-5.6106	0.1730	0.2056	-1.7267	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RX10-6									
6 168 1.01 1.7 0.0 0.260 F12 0.0 0 0 0 0 FIXED									
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	12.13	-16.12	2.1715	-3.7830	2.9566	-6.1340	0.1860	0.1854	-1.7421
48	12.12	-16.90	2.1216	-3.6832	3.0915	-6.3034	0.1670	0.1695	-1.7360
49	12.11	-17.71	2.0828	-3.4319	3.3262	-6.4544	0.1700	0.1707	-1.6477
50	12.14	-18.59	2.1100	-3.4590	3.5365	-6.4480	0.2020	0.1669	-1.6393
51	12.15	-19.39	2.0871	-3.3439	3.6052	-6.2542	0.2550	0.1795	-1.6022
52	12.15	-20.15	2.1320	-3.1828	3.7568	-5.7745	0.3360	0.1884	-1.4929
53	12.15	-20.92	2.2475	-3.3855	3.8371	-5.2829	0.4359	0.1958	-1.5063
54	12.18	-20.92	2.2744	-3.3341	4.0339	-5.3015	0.4399	0.1994	-1.4659

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		168	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCFF1	YCPF1	CNF2	CH2	CB2	XCFF2	YCPF2
1	12.22	19.46	-0.7041	0.0416	-0.2291	-0.0591	0.3254	0.5381	0.0263	0.0186	0.0490	0.0346
2	12.22	19.19	-0.7062	0.0407	-0.2273	-0.0577	0.3219	0.5163	0.0264	0.0197	0.0511	0.0381
3	12.20	18.43	-0.6563	0.0408	-0.2301	-0.0621	0.3506	0.5147	0.0264	0.0206	0.0513	0.0401
4	12.18	17.59	-0.6551	0.0414	-0.2163	-0.0633	0.3302	0.5288	0.0260	0.0181	0.0492	0.0343
5	12.18	16.84	-0.6254	0.0412	-0.2141	-0.0659	0.3423	0.5247	0.0260	0.0173	0.0495	0.0329
6	12.18	16.02	-0.5998	0.0419	-0.2074	-0.0699	0.3457	0.5085	0.0260	0.0148	0.0511	0.0290
7	12.16	15.27	-0.5372	0.0426	-0.1974	-0.0794	0.3675	0.5268	0.0258	0.0139	0.0490	0.0263
8	12.15	14.58	-0.5050	0.0441	-0.1931	-0.0874	0.3823	0.5191	0.0256	0.0132	0.0494	0.0254
9	12.15	13.75	-0.4907	0.0442	-0.1842	-0.0901	0.3754	0.5190	0.0255	0.0078	0.0492	0.0150
10	12.12	12.99	-0.4472	0.0441	-0.1752	-0.0986	0.3918	0.5114	0.0251	0.0091	0.0492	0.0179
11	12.09	12.20	-0.4173	0.0441	-0.1656	-0.1056	0.3967	0.5060	0.0256	0.0074	0.0507	0.0147
12	12.10	11.50	-0.3376	0.0422	-0.1538	-0.1251	0.4555	0.4869	0.0252	-0.0001	0.0517	-0.0003
13	12.09	10.65	-0.3453	0.0423	-0.1409	-0.1224	0.4079	0.4854	0.0244	0.0024	0.0514	0.0049
14	12.08	9.92	-0.3324	0.0427	-0.1344	-0.1284	0.4042	0.4875	0.0252	-0.0016	0.0518	-0.0033
15	12.08	9.09	-0.2905	0.0421	-0.1233	-0.1448	0.4244	0.4728	0.0249	-0.0041	0.0528	-0.0087
16	12.06	8.29	-0.2158	0.0414	-0.1195	-0.1920	0.5338	0.4740	0.0249	-0.0074	0.0525	-0.0157
17	12.06	7.45	-0.1942	0.0411	-0.1040	-0.2119	0.5356	0.4723	0.0245	-0.0133	0.0520	-0.0281
18	12.07	6.68	-0.1515	0.0411	-0.0865	-0.2716	0.5708	0.4677	0.0244	-0.0167	0.0523	-0.0357
19	12.08	5.88	-0.0970	0.0415	-0.0813	-0.4283	0.8384	0.4325	0.0244	-0.0157	0.0564	-0.0364
20	12.06	5.08	-0.0677	0.0444	-0.0669	-0.6557	0.9890	0.4472	0.0246	-0.0197	0.0550	-0.0442
21	12.02	4.25	-0.0617	0.0474	-0.0577	-0.7681	0.9361	0.4345	0.0247	-0.0255	0.0569	-0.0586
22	12.04	3.48	-0.0210	0.0487	-0.0502	-2.3186	2.3904	0.4173	0.0249	-0.0282	0.0598	-0.0676
23	12.02	2.73	-0.0094	0.0454	-0.0398	-4.8289	4.2375	0.3999	0.0252	-0.0349	0.0630	-0.0873
24	12.05	2.00	-0.0156	0.0344	-0.0163	-2.2047	1.0448	0.3820	0.0255	-0.0412	0.0669	-0.1078
25	12.02	1.17	0.0232	0.0201	-0.0120	0.8662	-0.5159	0.3316	0.0263	-0.0492	0.0794	-0.1482
26	12.05	0.46	-0.0046	0.0096	-0.0038	-2.0866	0.8332	0.3185	0.0266	-0.0580	0.0835	-0.1822
27	12.01	-0.30	-0.0308	0.0012	-0.0027	-0.0390	0.0865	0.2895	0.0271	-0.0624	0.0937	-0.2155
28	12.04	-1.04	-0.0369	-0.0070	0.0042	0.1897	-0.1139	0.2674	0.0270	-0.0746	0.1010	-0.2790
29	12.03	-1.88	-0.0643	-0.0186	0.0099	0.2892	-0.1536	0.2408	0.0271	-0.0808	0.1127	-0.3358
30	12.04	-2.69	-0.0242	-0.0326	0.0291	1.3489	-1.2040	0.2435	0.0265	-0.0909	0.1088	-0.3736
31	12.02	-3.53	-0.0072	-0.0434	0.0422	6.0267	-5.8612	0.2335	0.0258	-0.1043	0.1105	-0.4467
32	12.03	-4.27	-0.0223	-0.0477	0.0452	2.1409	-2.0255	0.1901	0.0257	-0.1070	0.1352	-0.5632
33	12.03	-5.11	-0.0200	-0.0462	0.0535	2.3096	-2.0768	0.1920	0.0250	-0.1141	0.1304	-0.5944
34	12.02	-5.82	0.0697	-0.0426	0.0440	-0.6111	0.6316	0.2036	0.0245	-0.1204	0.1203	-0.5916
35	12.04	-6.63	0.0621	-0.0402	0.0712	-0.6472	1.1464	0.1760	0.0232	-0.1221	0.1321	-0.6941
36	12.04	-7.38	0.1029	-0.0404	0.0789	-0.3930	0.7666	0.2019	0.0220	-0.1336	0.1092	-0.6618
37	12.03	-8.22	0.1502	-0.0407	0.1046	-0.2709	0.6967	0.1808	0.0200	-0.1438	0.1106	-0.7957
38	12.04	-8.97	0.2188	-0.0421	0.1149	-0.1924	0.5252	0.1645	0.0186	-0.1582	0.1130	-0.9616
39	12.05	-9.82	0.2249	-0.0429	0.1258	-0.1909	0.5595	0.1245	0.0173	-0.1576	0.1393	-1.2660
40	12.05	-10.55	0.3111	-0.0431	0.1316	-0.1385	0.4229	0.1172	0.0158	-0.1733	0.1352	-1.4791
41	12.06	-11.30	0.3567	-0.0438	0.1442	-0.1229	0.4041	0.0826	0.0143	-0.1817	0.1737	-2.2007
42	12.09	-12.08	0.3843	-0.0448	0.1595	-0.1167	0.4159	0.0417	0.0138	-0.1982	0.3309	-4.7531
43	12.10	-12.88	0.4547	-0.0442	0.1747	-0.0972	0.3842	-0.0323	0.0131	-0.2073	-0.4670	6.4199
44	12.10	-13.62	0.5255	-0.0437	0.1787	-0.0831	0.3401	-0.0927	0.0134	-0.2186	-0.1445	2.3591
45	12.12	-14.46	0.5440	-0.0407	0.2041	-0.0749	0.3751	-0.1260	0.0142	-0.2382	-0.1131	1.8912
46	12.12	-15.31	0.6282	-0.0380	0.2188	-0.0605	0.3483	-0.1789	0.0158	-0.2597	-0.0886	1.4517

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 168 1.01 1.7 0.0 BZHO 12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	12.13	-16.12	0.7109	-0.0354	0.2309	-0.0499	0.3248	-0.1911	0.0143	-0.2585	-0.0748	1.3531
48	12.12	-16.90	0.7094	-0.0361	0.2359	-0.0509	0.3325	-0.1620	0.0136	-0.2580	-0.0842	1.5931
49	12.11	-17.71	0.6957	-0.0368	0.2478	-0.0529	0.3562	-0.1677	0.0128	-0.2599	-0.0763	1.5503
50	12.14	-18.59	0.7175	-0.0377	0.2542	-0.0526	0.3543	-0.1449	0.0103	-0.2648	-0.0714	1.8280
51	12.15	-19.39	0.7247	-0.0374	0.2593	-0.0517	0.3578	-0.1799	0.0118	-0.2718	-0.0656	1.5111
52	12.15	-20.15	0.7411	-0.0371	0.2693	-0.0500	0.3634	-0.1991	0.0135	-0.2810	-0.0680	1.4116
53	12.15	-20.92	0.8202	-0.0367	0.2747	-0.0447	0.3349	-0.2614	0.0162	-0.2858	-0.0622	1.0934
54	12.18	-20.92	0.8299	-0.0391	0.2655	-0.0471	0.3198	-0.2523	0.0161	-0.2929	-0.0638	1.1612

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 168 1.01 1.7			0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	12.22	19.46	-1.1736	-0.0232	-0.4232	0.0148	0.3606	0.0172	-0.0389	0.0444	-2.2612	2.5832
2	12.22	19.19	-1.1796	-0.0231	-0.4186	0.0196	0.3548	0.0687	-0.0433	0.0585	-0.6302	0.8514
3	12.20	18.43	-1.1474	-0.0189	-0.4388	0.0165	0.3824	0.0051	-0.0344	0.0445	-6.7537	8.7254
4	12.18	17.59	-1.1435	-0.0099	-0.4612	0.0087	0.4033	0.0720	-0.0337	0.0496	-0.4687	0.6888
5	12.18	16.84	-1.1369	-0.0051	-0.4633	0.0045	0.4075	0.0686	-0.0358	0.0666	-0.5225	0.9717
6	12.18	16.02	-1.1798	-0.0018	-0.4468	0.0015	0.3787	0.1270	-0.0404	0.0812	-0.5184	0.6395
7	12.16	15.27	-1.1334	-0.0012	-0.4471	0.0011	0.3944	0.1673	-0.0463	0.1169	-0.2767	0.6990
8	12.15	14.58	-1.0773	0.0007	-0.4439	-0.0006	0.4120	0.2511	-0.0486	0.1278	-0.1935	0.5092
9	12.15	13.75	-1.0536	0.0021	-0.4294	-0.0020	0.4075	0.2876	-0.0487	0.1437	-0.1692	0.4997
10	12.12	12.99	-1.0004	0.0021	-0.4184	-0.0021	0.4183	0.3557	-0.0476	0.1491	-0.1359	0.4192
11	12.09	12.20	-0.9397	0.0014	-0.4038	-0.0015	0.4297	0.3728	-0.0451	0.1640	-0.1211	0.4399
12	12.10	11.50	-0.8676	-0.0010	-0.3902	0.0012	0.4497	0.4745	-0.0423	0.1789	-0.0891	0.3770
13	12.09	10.65	-0.8042	-0.0018	-0.3724	0.0023	0.4631	0.4540	-0.0394	0.1921	-0.0867	0.4231
14	12.08	9.92	-0.7571	-0.0039	-0.3480	0.0051	0.4597	0.4713	-0.0377	0.1924	-0.0801	0.4083
15	12.08	9.09	-0.7097	-0.0041	-0.3167	0.0058	0.4462	0.5168	-0.0330	0.1911	-0.0639	0.3698
16	12.06	8.29	-0.6155	-0.0052	-0.3038	0.0084	0.4935	0.5557	-0.0296	0.1975	-0.0532	0.3553
17	12.06	7.45	-0.5411	-0.0053	-0.2767	0.0098	0.5113	0.5739	-0.0245	0.2037	-0.0427	0.3550
18	12.07	6.68	-0.4711	-0.0043	-0.2511	0.0091	0.5329	0.6342	-0.0203	0.2070	-0.0320	0.3264
19	12.08	5.88	-0.3790	-0.0038	-0.2303	0.0100	0.6075	0.6200	-0.0169	0.2146	-0.0272	0.3461
20	12.06	5.08	-0.3438	-0.0027	-0.1999	0.0080	0.5813	0.6538	-0.0132	0.2207	-0.0203	0.3376
21	12.02	4.25	-0.2737	-0.0027	-0.1781	0.0099	0.6507	0.6420	-0.0117	0.2205	-0.0183	0.3435
22	12.04	3.48	-0.2473	-0.0024	-0.1385	0.0099	0.5601	0.6256	-0.0089	0.2343	-0.0142	0.3746
23	12.02	2.73	-0.1798	-0.0046	-0.1065	0.0256	0.5946	0.6826	-0.0073	0.2333	-0.0108	0.3419
24	12.05	2.00	-0.0837	-0.0039	-0.0900	0.0472	1.0752	0.6992	-0.0056	0.2493	-0.0080	0.3565
25	12.02	1.17	-0.0508	-0.0044	-0.0623	0.0876	1.2269	0.7107	-0.0047	0.2639	-0.0067	0.3713
26	12.05	0.46	-0.0039	-0.0047	-0.0353	1.2049	9.0512	0.7630	-0.0053	0.2660	-0.0069	0.3487
27	12.01	-0.30	0.0112	-0.0049	-0.0056	-0.4419	-0.4971	0.7967	-0.0052	0.2695	-0.0065	0.3382
28	12.04	-1.04	0.1039	-0.0038	0.0099	-0.0366	0.0955	0.8172	-0.0058	0.2795	-0.0071	0.3420
29	12.03	-1.88	0.1554	-0.0043	0.0325	-0.0280	0.2116	0.8406	-0.0056	0.2856	-0.0067	0.3398
30	12.04	-2.69	0.1627	-0.0041	0.0649	-0.0252	0.3990	0.8666	-0.0066	0.3025	-0.0076	0.3490
31	12.02	-3.53	0.2230	-0.0033	0.0953	-0.0148	0.4274	0.8897	-0.0077	0.3046	-0.0087	0.3423
32	12.03	-4.27	0.3121	-0.0034	0.1230	-0.0110	0.3941	0.8999	-0.0094	0.3084	-0.0105	0.3427
33	12.03	-5.11	0.4123	-0.0014	0.1449	-0.0034	0.3514	0.9401	-0.0098	0.3086	-0.0104	0.3282
34	12.02	-5.82	0.4269	0.0001	0.1805	-0.0004	0.4229	0.9182	-0.0107	0.3127	-0.0116	0.3405
35	12.04	-6.63	0.5091	0.0009	0.2053	0.0019	0.4033	0.9166	-0.0096	0.3219	-0.0105	0.3512
36	12.04	-7.38	0.5931	0.0025	0.2235	0.0043	0.3769	0.9766	-0.0089	0.3143	-0.0091	0.3219
37	12.03	-8.22	0.6303	0.0036	0.2496	0.0057	0.3960	0.9674	-0.0084	0.3137	-0.0087	0.3242
38	12.04	-8.97	0.6626	0.0035	0.2778	0.0054	0.4192	0.9323	-0.0082	0.3267	-0.0088	0.3504
39	12.05	-9.82	0.7897	0.0055	0.2656	0.0070	0.3744	0.9387	-0.0086	0.3335	-0.0092	0.3553
40	12.05	-10.55	0.8168	0.0050	0.3193	0.0062	0.3910	0.9816	-0.0080	0.3252	-0.0081	0.3313
41	12.06	-11.30	0.9072	0.0044	0.3338	0.0049	0.3679	0.9654	-0.0079	0.3344	-0.0082	0.3464
42	12.09	-12.08	0.9964	0.0029	0.3495	0.0029	0.3512	1.0080	-0.0071	0.3295	-0.0070	0.3269
43	12.10	-12.88	1.0275	0.0024	0.3709	0.0024	0.3609	0.9715	-0.0070	0.3384	-0.0072	0.3483
44	12.10	-13.62	1.0377	0.0022	0.3971	0.0022	0.3826	1.0211	-0.0056	0.3336	-0.0055	0.3267
45	12.12	-14.46	1.1209	0.0025	0.4056	0.0022	0.3618	1.0034	-0.0051	0.3409	-0.0051	0.3397
46	12.12	-15.31	1.1421	0.0026	0.4175	0.0023	0.3655	1.0182	-0.0034	0.3397	-0.0033	0.3336

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6			168		1.01		1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4			
47	12.13	-16.12	1.2130	0.0028	0.4252	0.0023	0.3505	1.0002	-0.0023	0.3387	-0.0023	0.3386			
48	12.12	-16.90	1.2348	0.0098	0.4318	0.0080	0.3497	1.0271	-0.0026	0.3341	-0.0025	0.3252			
49	12.11	-17.71	1.2524	0.0168	0.4316	0.0134	0.3446	0.9704	-0.0033	0.3467	-0.0034	0.3572			
50	12.14	-18.59	1.2762	0.0313	0.3595	0.0247	0.3134	1.0166	-0.0024	0.3443	-0.0024	0.3387			
51	12.15	-19.39	1.1995	0.0381	0.3753	0.0318	0.3129	1.0177	-0.0023	0.3447	-0.0023	0.3387			
52	12.15	-20.15	1.0837	0.0331	0.3291	0.0306	0.3037	1.0020	-0.0028	0.3365	-0.0028	0.3358			
53	12.15	-20.92	0.9925	0.0212	0.2549	0.0214	0.2972	0.9955	-0.0022	0.3420	-0.0022	0.3436			
54	12.18	-20.92	0.9662	0.0216	0.2967	0.0223	0.3070	1.0277	-0.0011	0.3352	-0.0011	0.3261			

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	OEL1	DEL2	DEL3	DEL4	TRANSITION
6	169	1.01	1.7	0.8	B2WOF12	0.0	0	0	0	FIXED
PGINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	15.25	19.44	2.9504	-4.0746	-3.9780	5.4912	-0.1750	0.0715	-1.3810	
2	15.22	19.46	2.8532	-4.1155	-3.9238	5.5853	-0.1700	0.0712	-1.4424	
3	15.22	19.06	2.8785	-4.0599	-4.0002	5.4303	-0.1760	0.0777	-1.4104	
4	15.24	18.41	2.8784	-4.2058	-3.8839	5.8564	-0.1350	0.0648	-1.4611	
5	15.23	17.56	2.8835	-4.2459	-3.9600	5.6430	-0.1100	0.0424	-1.4725	
6	15.22	16.74	2.9123	-4.1832	-3.8211	5.8285	-0.0540	0.0370	-1.4364	
7	15.22	15.94	2.8441	-4.2657	-3.5961	5.6295	-0.0260	0.0515	-1.4998	
8	15.20	15.16	2.7999	-4.3668	-3.3736	5.4639	0.0320	0.0727	-1.5596	
9	15.18	14.39	2.8013	-4.6298	-3.2183	5.2015	0.0720	0.0741	-1.6527	
10	15.13	13.59	2.6805	-4.8896	-3.1206	5.4057	0.1410	0.0872	-1.8241	
11	15.12	12.88	2.7286	-5.0919	-2.6456	4.8758	0.1150	0.1121	-1.8661	
12	15.15	12.09	2.8695	-5.3822	-2.4403	4.5112	0.0890	0.1157	-1.8756	
13	15.13	11.32	2.8697	-5.4074	-2.2424	3.9863	0.0850	0.1271	-1.8843	
14	15.11	10.53	2.8095	-5.4211	-2.1061	3.6545	0.1250	0.1263	-1.9296	
15	15.13	9.78	2.8524	-5.5562	-1.8781	3.2672	0.1170	0.1279	-1.9479	
16	15.10	8.95	2.8528	-5.7177	-1.6768	2.9154	0.1060	0.1451	-2.0042	
17	15.10	8.11	2.8512	-5.7985	-1.5778	2.5899	0.1250	0.1432	-2.0337	
18	15.08	7.28	2.8986	-5.9688	-1.4349	2.2648	0.1450	0.1516	-2.0592	
19	15.07	6.51	2.8716	-6.0960	-1.2403	1.8815	0.1120	0.1514	-2.1228	
20	15.07	5.69	2.9489	-6.2672	-1.0189	1.5464	0.0470	0.1509	-2.1253	
21	15.06	4.90	2.9171	-6.2867	-0.7740	1.1066	0.0660	0.1467	-2.1551	
22	15.06	4.11	2.9341	-6.3565	-0.6552	0.8263	0.0780	0.1540	-2.1664	
23	15.05	3.29	2.9091	-6.4075	-0.6377	0.6468	0.0950	0.1671	-2.2025	
24	15.05	2.61	2.9226	-6.4704	-0.4521	0.5010	0.1000	0.1769	-2.2139	
25	15.04	1.80	2.9039	-6.5542	-0.3291	0.4237	0.0890	0.1764	-2.2570	
26	15.05	1.05	2.9209	-6.5380	-0.3084	0.3607	0.0710	0.1754	-2.2383	
27	15.04	0.29	2.9275	-6.5942	-0.2228	0.2759	0.0550	0.1764	-2.2525	
28	15.02	-0.39	2.9365	-6.6788	-0.0902	0.2362	0.0250	0.1813	-2.2744	
29	15.02	-1.22	2.9472	-6.6548	-0.0624	0.1913	0.0120	0.1675	-2.2580	
30	15.04	-2.04	2.9358	-6.6208	-0.0037	0.1132	0.0200	0.1579	-2.2572	
31	15.04	-2.83	2.9565	-6.6038	0.1658	0.0329	-0.0130	0.1599	-2.2336	
32	15.03	-3.65	2.9295	-6.7330	0.3293	-0.2460	0.0110	0.1510	-2.2983	
33	15.03	-4.44	2.9455	-6.6904	0.3821	-0.3920	0.0080	0.1410	-2.2714	
34	15.03	-5.18	2.8983	-6.5583	0.6087	-0.7342	-0.0570	0.1584	-2.2628	
35	15.03	-5.93	2.8981	-6.5710	0.8050	-1.0770	-0.0930	0.1591	-2.2673	
36	15.04	-6.74	2.8691	-6.3795	0.9545	-1.4752	-0.1130	0.1612	-2.2235	
37	15.04	-7.57	2.8653	-6.2932	1.1816	-1.8653	-0.1080	0.1632	-2.1963	
38	15.04	-8.34	2.8230	-6.1580	1.3658	-2.2541	-0.1270	0.1534	-2.1613	
39	15.06	-9.11	2.8411	-6.0483	1.4924	-2.5533	-0.1090	0.1503	-2.1288	
40	15.08	-9.91	2.8263	-5.9146	1.6055	-2.9446	-0.0930	0.1460	-2.0927	
41	15.08	-10.66	2.8558	-5.8509	1.7590	-3.2954	-0.0300	0.1385	-2.0488	
42	15.05	-11.51	2.7687	-5.6810	1.9595	-3.7552	-0.0370	0.1369	-2.0518	
43	15.07	-12.19	2.8164	-5.6568	2.2382	-4.1544	-0.0480	0.1359	-2.0085	
44	15.09	-13.00	2.8170	-5.3957	2.4550	-4.5068	-0.0490	0.1444	-1.9154	
45	15.07	-13.75	2.7399	-5.2577	2.5841	-4.8995	-0.0450	0.1617	-1.9189	
46	15.10	-14.59	2.8378	-4.9056	2.8139	-5.0774	-0.0170	0.1483	-1.7288	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	169	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	15.15	-15.44	2.8300	-4.6559	3.0598	-5.1016	0.0350	0.1427	-1.6452
48	15.15	-16.22	2.8422	-4.4841	3.2251	-5.3590	0.0740	0.1427	-1.5777
49	15.20	-16.98	2.9571	-4.3649	3.3659	-5.4691	0.1340	0.1348	-1.4761
50	15.22	-17.87	2.9802	-4.2653	3.5992	-5.5499	0.1600	0.1517	-1.4312
51	15.20	-18.68	2.9278	-4.2949	3.7246	-5.5084	0.1970	0.1601	-1.4669
52	15.20	-19.54	2.9920	-4.1438	3.8729	-5.1021	0.2910	0.1816	-1.3850
53	15.23	-20.27	3.0524	-4.1374	4.0565	-4.8132	0.3580	0.1947	-1.3554

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	169	1.01	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	15.25	19.44	-0.5667	0.0421	-0.2140	-0.0744	0.3777	0.6651	0.0243	0.0740	0.0366	0.1113
2	15.22	19.46	-0.5514	0.0414	-0.2170	-0.0751	0.3936	0.6608	0.0240	0.0770	0.0363	0.1165
3	15.22	19.06	-0.5984	0.0415	-0.2084	-0.0694	0.3483	0.6532	0.0239	0.0786	0.0367	0.1203
4	15.24	18.41	-0.5754	0.0420	-0.2047	-0.0725	0.3532	0.6663	0.0239	0.0765	0.0359	0.1149
5	15.23	17.56	-0.5719	0.0435	-0.1997	-0.0761	0.3491	0.6694	0.0239	0.0743	0.0357	0.1110
6	15.22	16.74	-0.5183	0.0416	-0.1890	-0.0802	0.3647	0.6437	0.0240	0.0739	0.0373	0.1148
7	15.22	15.94	-0.4512	0.0416	-0.1843	-0.0922	0.4086	0.6467	0.0241	0.0718	0.0373	0.1110
8	15.20	15.16	-0.4122	0.0395	-0.1556	-0.0958	0.3774	0.6311	0.0242	0.0663	0.0384	0.1051
9	15.18	14.39	-0.3741	0.0399	-0.1413	-0.1066	0.3776	0.6333	0.0241	0.0665	0.0381	0.1051
10	15.13	13.59	-0.3125	0.0395	-0.1300	-0.1265	0.4161	0.6187	0.0241	0.0628	0.0389	0.1015
11	15.12	12.88	-0.2598	0.0439	-0.1353	-0.1689	0.5211	0.6087	0.0238	0.0627	0.0391	0.1031
12	15.15	12.09	-0.2492	0.0435	-0.1152	-0.1745	0.4624	0.6230	0.0236	0.0609	0.0383	0.0978
13	15.13	11.32	-0.2413	0.0448	-0.1186	-0.1858	0.4915	0.6067	0.0242	0.0609	0.0400	0.1004
14	15.11	10.53	-0.1843	0.0437	-0.0958	-0.2371	0.5416	0.5765	0.0238	0.0565	0.0414	0.0980
15	15.13	9.78	-0.1340	0.0423	-0.0860	-0.3160	0.6422	0.5621	0.0237	0.0560	0.0422	0.0997
16	15.10	8.95	-0.1363	0.0432	-0.0743	-0.3169	0.5452	0.5609	0.0242	0.0538	0.0432	0.0960
17	15.10	8.11	-0.0628	0.0398	-0.0579	-0.6336	0.9224	0.5593	0.0240	0.0465	0.0430	0.0831
18	15.08	7.28	-0.0169	0.0396	-0.0418	-2.3457	2.4752	0.5286	0.0240	0.0475	0.0455	0.0898
19	15.07	6.51	0.0288	0.0433	-0.0403	1.5032	-1.3994	0.5187	0.0239	0.0443	0.0461	0.0853
20	15.07	5.69	0.0229	0.0498	-0.0397	2.1743	-1.7323	0.5337	0.0238	0.0426	0.0447	0.0797
21	15.06	4.90	0.0330	0.0535	-0.0341	1.6209	-1.0335	0.5483	0.0240	0.0334	0.0438	0.0610
22	15.06	4.11	0.0674	0.0535	-0.0117	0.7944	-0.1742	0.5346	0.0241	0.0321	0.0451	0.0600
23	15.05	3.29	0.1267	0.0472	0.0004	0.3725	0.0033	0.5255	0.0239	0.0185	0.0456	0.0353
24	15.05	2.61	0.1474	0.0361	0.0096	0.2449	0.0652	0.5130	0.0244	0.0107	0.0475	0.0208
25	15.04	1.80	0.1095	0.0228	0.0141	0.2086	0.1286	0.5061	0.0250	-0.0001	0.0494	-0.0003
26	15.05	1.05	0.0618	0.0135	0.0202	0.2184	0.3267	0.4657	0.0251	-0.0061	0.0540	-0.0131
27	15.04	0.29	0.0278	0.0056	0.0059	0.2014	0.2109	0.4170	0.0256	-0.0118	0.0614	-0.0283
28	15.02	-0.39	-0.0362	-0.0023	0.0041	0.0649	-0.1143	0.3941	0.0262	-0.0184	0.0665	-0.0468
29	15.02	-1.22	-0.0618	-0.0124	0.0003	0.2014	-0.0050	0.3527	0.0265	-0.0277	0.0752	-0.0786
30	15.04	-2.04	-0.0731	-0.0298	0.0102	0.4083	-0.1401	0.3393	0.0263	-0.0445	0.0775	-0.1311
31	15.04	-2.83	-0.1010	-0.0359	0.0011	0.3559	-0.0113	0.3192	0.0268	-0.0502	0.0839	-0.1572
32	15.03	-3.65	-0.0766	-0.0509	0.0286	0.6650	-0.3731	0.3467	0.0261	-0.0679	0.0754	-0.1959
33	15.03	-4.44	-0.0489	-0.0563	0.0266	1.1511	-0.5441	0.3351	0.0261	-0.0763	0.0780	-0.2276
34	15.03	-5.18	-0.1308	-0.0529	0.0150	0.4044	-0.1148	0.3314	0.0265	-0.0801	0.0799	-0.2417
35	15.03	-5.93	-0.0985	-0.0496	0.0144	0.5035	-0.1460	0.3301	0.0259	-0.0843	0.0784	-0.2552
36	15.04	-6.74	-0.0587	-0.0435	0.0147	0.7409	-0.2511	0.2962	0.0253	-0.0830	0.0854	-0.2800
37	15.04	-7.57	-0.0106	-0.0359	0.0283	3.3509	-2.6668	0.2974	0.0239	-0.0939	0.0803	-0.3155
38	15.04	-8.34	0.0316	-0.0335	0.0293	-1.0615	0.9282	0.2931	0.0229	-0.0973	0.0781	-0.3319
39	15.06	-9.11	0.0771	-0.0329	0.0525	-0.4273	0.6808	0.2820	0.0216	-0.1073	0.0766	-0.3804
40	15.08	-9.91	0.1410	-0.0358	0.0660	-0.2562	0.4680	0.2583	0.0196	-0.1192	0.0759	-0.4616
41	15.08	-10.66	0.2452	-0.0414	0.1046	-0.1690	0.4266	0.2367	0.0177	-0.1376	0.0748	-0.5814
42	15.05	-11.51	0.2708	-0.0428	0.1148	-0.1982	0.4241	0.2094	0.0166	-0.1424	0.0793	-0.6802
43	15.07	-12.19	0.3060	-0.0441	0.1240	-0.1440	0.4051	0.1940	0.0157	-0.1504	0.0789	-0.7557
44	15.09	-13.00	0.2875	-0.0420	0.1242	-0.1460	0.4320	0.1696	0.0150	-0.1595	0.0887	-0.9404
45	15.07	-13.75	0.3450	-0.0455	0.1470	-0.1320	0.4259	0.1482	0.0141	-0.1693	0.0951	-1.1425
46	15.10	-14.59	0.3688	-0.0437	0.1474	-0.1186	0.3996	0.0779	0.0135	-0.1897	0.1739	-2.4337

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 2 OF 2

TEST PART MACH RX10-6				PHI	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION	
6 169 1.01 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	15.15	-15.44	0.4329	-0.0444	0.1592	-0.1025	0.3676	-0.0362	0.0137	-0.2046	-0.3798	5.6537
48	15.15	-16.22	0.4742	-0.0450	0.1693	-0.0949	0.3570	-0.0746	0.0148	-0.2219	-0.1990	2.9753
49	15.20	-16.98	0.5613	-0.0461	0.1853	-0.0821	0.3302	-0.1291	0.0163	-0.2464	-0.1262	1.9087
50	15.22	-17.87	0.5720	-0.0466	0.1958	-0.0814	0.3423	-0.1099	0.0153	-0.2509	-0.1392	2.2832
51	15.20	-18.68	0.5773	-0.0453	0.2088	-0.0785	0.3616	-0.1105	0.0137	-0.2539	-0.1244	2.2979
52	15.20	-19.54	0.5576	-0.0462	0.2255	-0.0828	0.4044	-0.1540	0.0155	-0.2576	-0.1010	1.6728
53	15.23	-20.27	0.6627	-0.0463	0.2239	-0.0699	0.3379	-0.1884	0.0168	-0.2699	-0.0894	1.4330

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 169 1.01 1.7			0.0	B2WUF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	15.25	19.44	-1.1247	-0.0286	-0.3976	0.0254	0.3535	0.2374	-0.0432	0.1171	-0.1821	0.4933
2	15.22	19.46	-1.1090	-0.0300	-0.4010	0.0270	0.3616	0.2452	-0.0451	0.1191	-0.1581	0.4177
3	15.22	19.06	-1.1595	-0.0300	-0.4002	0.0259	0.3451	0.2402	-0.0445	0.1261	-0.1852	0.5251
4	15.24	18.41	-1.1855	-0.0249	-0.4165	0.0210	0.3517	0.2622	-0.0454	0.1212	-0.1731	0.4625
5	15.23	17.56	-1.1713	-0.0230	-0.4343	0.0197	0.3708	0.2690	-0.0476	0.1299	-0.1771	0.4830
6	15.22	16.74	-1.2055	-0.0118	-0.4543	0.0098	0.3768	0.2932	-0.0436	0.1296	-0.1486	0.4420
7	15.22	15.94	-1.1835	-0.0021	-0.4648	0.0018	0.3928	0.2747	-0.0406	0.1407	-0.1477	0.5123
8	15.20	15.16	-1.1758	-0.0002	-0.4556	0.0002	0.3875	0.3548	-0.0419	0.1551	-0.1182	0.4372
9	15.18	14.39	-1.1114	0.0027	-0.4560	-0.0025	0.4103	0.4224	-0.0431	0.1665	-0.1021	0.3940
10	15.13	13.59	-1.1119	0.0033	-0.4455	-0.0030	0.4010	0.5428	-0.0445	0.1918	-0.0820	0.3533
11	15.12	12.88	-1.0006	0.0017	-0.4323	-0.0017	0.4320	0.5049	-0.0439	0.2024	-0.0869	0.4009
12	15.15	12.09	-0.9622	0.0004	-0.4111	-0.0004	0.4272	0.5828	-0.0404	0.1986	-0.0693	0.3408
13	15.15	11.32	-0.9042	-0.0021	-0.3867	0.0023	0.4276	0.5643	-0.0404	0.2013	-0.0716	0.3568
14	15.11	10.53	-0.8385	-0.0032	-0.3675	0.0039	0.4383	0.5560	-0.0375	0.2224	-0.0674	0.3999
15	15.13	9.78	-0.7841	-0.0040	-0.3451	0.0052	0.4412	0.6321	-0.0345	0.2198	-0.0546	0.3478
16	15.10	8.95	-0.6878	-0.0065	-0.3257	0.0094	0.4735	0.6382	-0.0325	0.2277	-0.0510	0.3569
17	15.10	8.11	-0.6283	-0.0062	-0.3045	0.0099	0.4853	0.6301	-0.0266	0.2468	-0.0423	0.3918
18	15.08	7.28	-0.5674	-0.0059	-0.2801	0.0105	0.4937	0.7113	-0.0215	0.2450	-0.0303	0.3445
19	15.07	6.51	-0.5288	-0.0054	-0.2502	0.0103	0.4731	0.7317	-0.0168	0.2451	-0.0230	0.3350
20	15.07	5.69	-0.4329	-0.0042	-0.2264	0.0098	0.5231	0.7176	-0.0155	0.2579	-0.0217	0.3594
21	15.06	4.90	-0.3615	-0.0024	-0.1928	0.0068	0.5332	0.7389	-0.0133	0.2504	-0.0181	0.3389
22	15.06	4.11	-0.2839	-0.0033	-0.1692	0.0116	0.5959	0.7812	-0.0100	0.2534	-0.0129	0.3244
23	15.05	3.29	-0.2346	-0.0033	-0.1409	0.0141	0.6009	0.8342	-0.0069	0.2660	-0.0083	0.3188
24	15.05	2.61	-0.1706	-0.0028	-0.1141	0.0164	0.6691	0.8399	-0.0061	0.2816	-0.0073	0.3352
25	15.04	1.80	-0.0942	-0.0023	-0.0865	0.0244	0.9181	0.8975	-0.0047	0.2937	-0.0052	0.3272
26	15.05	1.05	-0.0503	-0.0036	-0.0621	0.0726	1.2358	0.8925	-0.0048	0.3103	-0.0054	0.3477
27	15.04	0.29	0.0068	-0.0037	-0.0358	-0.5440	-5.2697	0.9453	-0.0049	0.3120	-0.0052	0.3300
28	15.02	-0.39	0.0349	-0.0052	-0.0064	-0.1504	-0.1825	0.9779	-0.0065	0.3241	-0.0066	0.3314
29	15.02	-1.22	0.1459	-0.0054	0.0124	-0.0373	0.0951	0.9928	-0.0070	0.3349	-0.0070	0.3373
30	15.04	-2.04	0.1577	-0.0051	0.0470	-0.0323	0.2983	1.0443	-0.0080	0.3450	-0.0077	0.3303
31	15.04	-2.83	0.2186	-0.0064	0.0732	-0.0295	0.3350	1.0474	-0.0089	0.3557	-0.0085	0.3396
32	15.03	-3.65	0.2687	-0.0052	0.1043	-0.0193	0.3883	1.1508	-0.0092	0.3545	-0.0080	0.3080
33	15.03	-4.44	0.3734	-0.0035	0.1253	-0.0094	0.3356	1.1157	-0.0104	0.3681	-0.0093	0.3299
34	15.03	-5.18	0.4350	-0.0006	0.1534	-0.0014	0.3525	1.1427	-0.0127	0.3635	-0.0112	0.3181
35	15.03	-5.93	0.4811	0.0002	0.1903	0.0004	0.3956	1.1575	-0.0120	0.3660	-0.0104	0.3162
36	15.04	-6.74	0.5409	0.0023	0.2221	0.0043	0.4107	1.1357	-0.0125	0.3679	-0.0110	0.3240
37	15.04	-7.57	0.6090	0.0042	0.2482	0.0069	0.4076	1.1743	-0.0120	0.3668	-0.0103	0.3124
38	15.04	-8.34	0.6767	0.0060	0.2691	0.0089	0.3976	1.1693	-0.0115	0.3639	-0.0099	0.3112
39	15.06	-9.11	0.7481	0.0063	0.2886	0.0085	0.3857	1.1387	-0.0111	0.3789	-0.0097	0.3328
40	15.08	-9.91	0.8290	0.0076	0.3101	0.0092	0.3741	1.1936	-0.0106	0.3731	-0.0089	0.3126
41	15.08	-10.66	0.8958	0.0063	0.3264	0.0071	0.3644	1.2140	-0.0094	0.3790	-0.0078	0.3122
42	15.05	-11.51	0.9665	0.0057	0.3497	0.0059	0.3618	1.2085	-0.0095	0.3775	-0.0079	0.3124
43	15.07	-12.19	1.0063	0.0055	0.3802	0.0055	0.3778	1.2147	-0.0097	0.3870	-0.0080	0.3186
44	15.09	-13.00	1.1046	0.0048	0.3991	0.0043	0.3613	1.2384	-0.0099	0.3881	-0.0080	0.3134
45	15.07	-13.75	1.1937	0.0051	0.4113	0.0044	0.3565	1.2133	-0.0103	0.3916	-0.0085	0.3227
46	15.10	-14.59	1.1907	0.0044	0.4246	0.0037	0.3566	1.2390	-0.0098	0.3877	-0.0079	0.3130

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 169 1.01 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	15.15	-15.44	1.2212	0.0065	0.4377	0.0054	0.3584	1.2374	-0.0094	0.3995	-0.0076	0.3229
48	15.15	-16.22	1.2680	0.0085	0.4384	0.0067	0.3458	1.2470	-0.0104	0.3869	-0.0081	0.3007
49	15.20	-16.98	1.3013	0.0110	0.4378	0.0085	0.3364	1.2449	-0.0095	0.4012	-0.0076	0.3223
50	15.22	-17.87	1.3181	0.0215	0.4307	0.0163	0.3268	1.2982	-0.0096	0.3886	-0.0074	0.2993
51	15.20	-18.68	1.2871	0.0311	0.4111	0.0242	0.3194	1.2604	-0.0094	0.3988	-0.0075	0.3164
52	15.20	-19.54	1.1660	0.0367	0.3668	0.0315	0.3146	1.2925	-0.0095	0.3914	-0.0073	0.3028
53	15.23	-20.27	1.1629	0.0324	0.3455	0.0279	0.2971	1.3081	-0.0084	0.3929	-0.0065	0.3003

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	OEL1	DEL2	DEL3	OEL4	TRANSITION
6 170 1.01 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	18.41	19.34	3.7430	-4.4153	-4.0405	4.9098	-0.0860	0.0527	-1.1796		
2	18.41	18.47	3.6666	-4.4674	-3.9496	4.7815	-0.0580	0.0625	-1.2184		
3	18.40	17.71	3.7380	-4.6853	-3.9412	4.8547	-0.0240	0.0693	-1.2534		
4	18.39	16.86	3.6826	-4.5327	-4.0641	4.8978	0.0080	0.0285	-1.2308		
5	18.40	16.04	3.7020	-4.5069	-3.8760	5.0284	0.0700	0.0111	-1.2174		
6	18.35	15.30	3.5521	-4.6970	-3.4312	4.8786	0.0920	0.0288	-1.3223		
7	18.32	14.55	3.5738	-5.0054	-3.1845	4.5763	0.1330	0.0555	-1.4006		
8	18.32	13.75	3.5539	-5.1705	-3.0475	4.2835	0.1570	0.0665	-1.4549		
9	18.32	12.89	3.5840	-5.4286	-2.8384	4.1898	0.1810	0.0538	-1.5147		
10	18.30	12.20	3.5568	-5.4855	-2.4258	3.2881	0.1860	0.0984	-1.5422		
11	18.26	11.35	3.5634	-5.7627	-2.3699	3.3918	0.2140	0.0882	-1.6172		
12	18.26	10.60	3.5816	-5.9752	-2.2896	3.0505	0.2070	0.1060	-1.6683		
13	18.25	9.72	3.6029	-6.2369	-2.1194	2.8152	0.2150	0.0913	-1.7311		
14	18.21	9.03	3.5461	-6.4284	-1.8884	2.6127	0.2400	0.1180	-1.8128		
15	18.19	8.20	3.4631	-6.6872	-1.7160	2.5573	0.2390	0.1245	-1.9309		
16	18.16	7.43	3.4807	-6.8998	-1.4232	1.9885	0.1920	0.1283	-1.9823		
17	18.16	6.60	3.5836	-7.0858	-1.1505	1.5288	0.1690	0.1412	-1.9773		
18	18.16	5.84	3.7027	-7.1715	-1.0169	1.0527	0.1550	0.1330	-1.9368		
19	18.17	4.95	3.6430	-7.2559	-0.8573	0.5653	0.1350	0.1329	-1.9917		
20	18.15	4.16	3.6453	-7.3062	-0.7891	0.5938	0.1460	0.1536	-2.0043		
21	18.14	3.38	3.6454	-7.3733	-0.7154	0.5166	0.1980	0.1620	-2.0226		
22	18.13	2.67	3.5962	-7.5764	-0.5804	0.5046	0.1580	0.1744	-2.1068		
23	18.13	1.80	3.6319	-7.6554	-0.4389	0.4085	0.1260	0.1720	-2.1078		
24	18.12	1.10	3.6233	-7.6703	-0.2775	0.2575	0.0750	0.1707	-2.1169		
25	18.12	0.33	3.6661	-7.6652	-0.1856	0.1138	0.0190	0.1785	-2.0908		
26	18.13	-0.40	3.6430	-7.5959	-0.2182	0.4064	0.0250	0.1838	-2.0851		
27	18.11	-1.20	3.6493	-7.7287	-0.1781	0.5743	0.0330	0.1813	-2.1178		
28	18.11	-1.94	3.6557	-7.6587	-0.1024	0.6373	0.0290	0.1661	-2.0950		
29	18.11	-2.79	3.6256	-7.6655	0.0601	0.4248	-0.0170	0.1543	-2.1143		
30	18.13	-3.61	3.6241	-7.8494	0.1372	0.4519	-0.0350	0.1556	-2.1107		
31	18.12	-4.44	3.6291	-7.6454	0.2907	0.1510	-0.0590	0.1543	-2.1067		
32	18.11	-5.19	3.5651	-7.5199	0.4754	-0.1907	-0.0740	0.1624	-2.1093		
33	18.14	-5.95	3.5735	-7.4506	0.6437	-0.4453	-0.1200	0.1787	-2.0849		
34	18.13	-6.76	3.5612	-7.2774	0.8813	-0.8988	-0.1280	0.1678	-2.0435		
35	18.13	-7.57	3.5021	-7.0837	1.0411	-1.3775	-0.1540	0.1813	-2.0227		
36	18.16	-8.39	3.4420	-6.9956	1.3379	-1.8211	-0.2050	0.1824	-2.0033		
37	18.15	-9.16	3.4591	-6.7616	1.5922	-2.2681	-0.2010	0.1735	-1.9547		
38	18.16	-9.93	3.4602	-6.6071	1.7106	-2.5308	-0.1870	0.1608	-1.9094		
39	18.20	-10.76	3.4586	-6.3819	1.8813	-2.7757	-0.1690	0.1454	-1.8452		
40	18.22	-11.46	3.5434	-5.9527	1.9314	-2.7530	-0.1280	0.1339	-1.6799		
41	18.21	-12.31	3.4737	-5.9551	2.1860	-3.3634	-0.0790	0.1501	-1.7143		
42	18.22	-13.07	3.3982	-5.8073	2.3193	-3.6720	-0.1140	0.1416	-1.7090		
43	18.24	-13.82	3.5058	-5.6141	2.5020	-3.9287	-0.0020	0.1437	-1.6014		
44	18.25	-14.73	3.4749	-5.3969	2.7740	-4.1606	-0.0690	0.1275	-1.5531		
45	18.27	-15.50	3.4812	-5.1847	3.0309	-4.5082	-0.0550	0.1366	-1.4893		
46	18.29	-16.33	3.5124	-4.9924	3.1336	-4.5340	-0.0120	0.1182	-1.4213		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 170 1.01 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	18.34	-17.12	3.6399	-4.8729	3.5030	-4.7553	0.0170	0.1298	-1.3387
48	18.33	-17.96	3.6998	-4.9638	3.6687	-4.5113	0.0840	0.1430	-1.3416
49	18.35	-18.78	3.7399	-4.7689	3.9233	-4.4617	0.1330	0.1157	-1.2751
50	18.35	-19.60	3.8090	-4.7177	3.9283	-3.9728	0.2350	0.1517	-1.2386
51	18.36	-20.18	3.8043	-4.7141	4.1797	-4.0427	0.2850	0.1388	-1.2391

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 170 1.01 1.7			0.0	82WOF12	0.0	0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	18.41	19.34	-0.4306	0.0507	-0.1829	-0.1177	0.4247	0.7317	0.0295	0.0978	0.0403	0.1337
2	18.41	18.47	-0.4581	0.0509	-0.1761	-0.1111	0.3845	0.7486	0.0297	0.0939	0.0397	0.1254
3	18.40	17.71	-0.4010	0.0532	-0.1741	-0.1326	0.4342	0.7099	0.0308	0.0955	0.0434	0.1345
4	18.39	16.86	-0.4096	0.0497	-0.1556	-0.1214	0.3798	0.7255	0.0296	0.0938	0.0408	0.1292
5	18.40	16.04	-0.3108	0.0486	-0.1361	-0.1565	0.4377	0.7223	0.0303	0.0869	0.0420	0.1203
6	18.35	15.30	-0.2819	0.0448	-0.1085	-0.1588	0.3850	0.7370	0.0296	0.0853	0.0402	0.1157
7	18.32	14.55	-0.1749	0.0424	-0.1003	-0.2424	0.5734	0.7392	0.0287	0.0859	0.0388	0.1163
8	18.32	13.75	-0.1337	0.0414	-0.0927	-0.3100	0.6937	0.7486	0.0296	0.0785	0.0395	0.1048
9	18.32	12.89	-0.1265	0.0383	-0.0590	-0.3031	0.4668	0.7125	0.0286	0.0843	0.0402	0.1184
10	18.30	12.20	-0.0637	0.0354	-0.0579	-0.5564	0.9094	0.7322	0.0278	0.0774	0.0380	0.1057
11	18.26	11.35	-0.0377	0.0317	-0.0329	-0.8407	0.8717	0.7206	0.0271	0.0796	0.0377	0.1105
12	18.26	10.60	-0.0059	0.0325	-0.0333	-5.5075	5.6383	0.7057	0.0276	0.0775	0.0392	0.1098
13	18.25	9.72	-0.0124	0.0314	-0.0173	-2.5318	1.3977	0.7125	0.0261	0.0806	0.0367	0.1132
14	18.21	9.03	0.0719	0.0277	-0.0059	0.3852	-0.0826	0.7144	0.0255	0.0740	0.0358	0.1035
15	18.19	8.20	0.0530	0.0334	0.0001	0.3591	0.0010	0.6605	0.0267	0.0779	0.0405	0.1180
16	18.16	7.43	0.0662	0.0470	-0.0115	0.7106	-0.1743	0.6603	0.0275	0.0719	0.0416	0.1090
17	18.16	6.60	0.1622	0.0540	-0.0158	0.3329	-0.0977	0.6363	0.0285	0.0722	0.0448	0.1135
18	18.16	5.84	0.1561	0.0455	0.0142	0.2914	0.0911	0.6906	0.0259	0.0701	0.0375	0.1016
19	18.17	4.95	0.1937	0.0494	0.0201	0.2552	0.1040	0.6649	0.0249	0.0724	0.0374	0.1089
20	18.15	4.16	0.2600	0.0363	0.0517	0.1396	0.1990	0.6232	0.0246	0.0690	0.0395	0.1107
21	18.14	3.38	0.2440	0.0249	0.0681	0.1022	0.2791	0.5826	0.0248	0.0614	0.0426	0.1053
22	18.13	2.67	0.1956	0.0228	0.0965	0.1165	0.2376	0.5688	0.0251	0.0593	0.0441	0.1042
23	18.13	1.80	0.1774	0.0227	0.0277	0.1279	0.1562	0.5334	0.0253	0.0563	0.0475	0.1055
24	18.12	1.10	0.1235	0.0219	0.0124	0.1777	0.1008	0.5112	0.0253	0.0488	0.0495	0.0954
25	18.12	0.33	0.0236	0.0143	-0.0003	0.6079	-0.0142	0.5395	0.0263	0.0370	0.0487	0.0686
26	18.13	-0.40	-0.0396	-0.0049	0.0009	0.1237	-0.0228	0.5126	0.0259	0.0162	0.0506	0.0317
27	18.11	-1.20	-0.0885	-0.0333	0.0126	0.3762	-0.1425	0.5050	0.0252	-0.0093	0.0500	-0.0184
28	18.11	-1.94	-0.0975	-0.0452	0.0137	0.4635	-0.1406	0.4887	0.0246	-0.0266	0.0504	-0.0545
29	18.11	-2.79	-0.1659	-0.0499	-0.0026	0.3010	0.0156	0.4806	0.0249	-0.0356	0.0519	-0.0741
30	18.13	-3.61	-0.2161	-0.0517	-0.0158	0.2392	0.0731	0.4664	0.0247	-0.0431	0.0530	-0.0925
31	18.12	-4.44	-0.2089	-0.0600	-0.0093	0.2874	0.0446	0.4428	0.0242	-0.0504	0.0547	-0.1138
32	18.11	-5.18	-0.1831	-0.0590	-0.0128	0.3224	0.0700	0.4280	0.0236	-0.0596	0.0552	-0.1393
33	18.14	-5.95	-0.1835	-0.0581	-0.0129	0.3168	0.0705	0.4293	0.0232	-0.0708	0.0541	-0.1649
34	18.13	-6.76	-0.1566	-0.0563	-0.0030	0.3595	0.0190	0.3807	0.0226	-0.0726	0.0595	-0.1907
35	18.13	-7.57	-0.1330	-0.0495	-0.0094	0.3721	0.0708	0.3625	0.0224	-0.0775	0.0618	-0.2137
36	18.16	-8.39	-0.1637	-0.0426	-0.0070	0.2605	0.0430	0.3791	0.0217	-0.0815	0.0572	-0.2150
37	18.15	-9.16	-0.0981	-0.0390	0.0027	0.3575	-0.0276	0.3718	0.0200	-0.0906	0.0538	-0.2436
38	18.16	-9.93	-0.0353	-0.0407	0.0243	1.1542	-0.6894	0.3414	0.0186	-0.1000	0.0545	-0.2928
39	18.20	-10.76	-0.0226	-0.0382	0.0351	1.6922	-1.5517	0.3460	0.0166	-0.1147	0.0481	-0.3313
40	18.22	-11.40	0.0423	-0.0372	0.0467	-0.8793	1.1039	0.2274	0.0143	-0.1392	0.0631	-0.6123
41	18.21	-12.31	0.1126	-0.0534	0.0982	-0.4742	0.8723	0.2480	0.0138	-0.1525	0.0558	-0.6152
42	18.22	-13.07	0.1129	-0.0468	0.0808	-0.4149	0.7159	0.2222	0.0131	-0.1529	0.0592	-0.6884
43	18.24	-13.82	0.1728	-0.0491	0.0984	-0.2844	0.5693	0.1769	0.0126	-0.1693	0.0715	-0.9573
44	18.25	-14.73	0.2026	-0.0455	0.1006	-0.2245	0.4966	0.1410	0.0125	-0.1822	0.0886	-1.2923
45	18.27	-15.50	0.2206	-0.0454	0.1188	-0.2098	0.5386	0.1161	0.0126	-0.1942	0.1089	-1.6728
46	18.29	-16.33	0.2723	-0.0464	0.1259	-0.1704	0.4625	0.0909	0.0124	-0.2090	0.2436	-4.1069

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 170 1.01 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	18.34	-17.12	0.3418	-0.0495	0.1405	-0.1449	0.4110	0.0371	0.0125	-0.2219	0.3382	-5.9821
48	18.33	-17.96	0.3774	-0.0442	0.1457	-0.1172	0.3859	0.0392	0.0104	-0.2236	0.2665	-5.7050
49	18.35	-18.78	0.4104	-0.0453	0.1605	-0.1103	0.3909	-0.0338	0.0129	-0.2320	-0.3831	6.8658
50	18.35	-19.60	0.4163	-0.0461	0.1829	-0.1108	0.4394	-0.0339	0.0135	-0.2376	-0.3982	7.0087
51	18.36	-20.18	0.5310	-0.0458	0.1807	-0.0863	0.3404	-0.0564	0.0139	-0.2362	-0.2464	4.1878

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		170	1.01	1.7	0.0	02W0F12	0.0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	18.41	19.34	-1.1939	-0.0241	-0.4285	0.0202	0.3589	0.3480	-0.0461	0.1434	-0.1332	0.4144
2	18.41	18.47	-1.2076	-0.0236	-0.4373	0.0196	0.3621	0.3599	-0.0482	0.1531	-0.1340	0.4254
3	18.40	17.71	-1.2150	-0.0213	-0.4425	0.0175	0.3642	0.3614	-0.0514	0.1622	-0.1422	0.4488
4	18.39	16.86	-1.2268	-0.0118	-0.4588	0.0097	0.3740	0.4178	-0.0500	0.1528	-0.1196	0.3658
5	18.40	16.04	-1.2249	0.0	-0.4747	0.0	0.3876	0.3448	-0.0433	0.1468	-0.1255	0.4257
6	18.35	15.30	-1.2043	0.0048	-0.4746	-0.0040	0.3941	0.3697	-0.0429	0.1642	-0.1160	0.4441
7	18.32	14.55	-1.1559	0.0056	-0.4674	-0.0048	0.4044	0.4258	-0.0470	0.1728	-0.1103	0.4058
8	18.32	13.75	-1.1045	0.0046	-0.4523	-0.0042	0.4099	0.4540	-0.0470	0.1976	-0.1036	0.4352
9	18.32	12.89	-1.0804	0.0033	-0.4346	-0.0031	0.4022	0.5524	-0.0478	0.2058	-0.0865	0.3725
10	18.30	12.20	-0.9921	0.0016	-0.4190	-0.0017	0.4223	0.5484	-0.0453	0.2087	-0.0827	0.3806
11	18.26	11.35	-0.9618	-0.0014	-0.3521	0.0015	0.4076	0.6446	-0.0441	0.2234	-0.0684	0.3466
12	18.26	10.60	-0.8874	-0.0035	-0.3819	0.0034	0.4303	0.6799	-0.0400	0.2284	-0.0589	0.3360
13	18.25	9.72	-0.8205	-0.0058	-0.3611	0.0071	0.4401	0.7196	-0.0362	0.2460	-0.0504	0.3418
14	18.21	9.03	-0.7227	-0.0086	-0.3426	0.0120	0.4741	0.7759	-0.0242	0.2575	-0.0377	0.3319
15	18.19	8.20	-0.6585	-0.0095	-0.3160	0.0145	0.4799	0.8449	-0.0211	0.2686	-0.0250	0.3178
16	18.16	7.43	-0.6130	-0.0082	-0.2851	0.0134	0.4655	0.7689	-0.0207	0.2748	-0.0270	0.3574
17	18.16	6.60	-0.5219	-0.0075	-0.2601	0.0145	0.4783	0.7958	-0.0183	0.2813	-0.0230	0.3534
18	18.16	5.84	-0.4451	-0.0068	-0.2358	0.0154	0.5298	0.8265	-0.0174	0.2826	-0.0210	0.3419
19	18.17	4.95	-0.3735	-0.0085	-0.2020	0.0229	0.5407	0.8773	-0.0160	0.2785	-0.0182	0.3175
20	18.15	4.16	-0.3407	-0.0097	-0.1704	0.0286	0.5002	0.9287	-0.0107	0.2943	-0.0115	0.3169
21	18.14	3.38	-0.2259	-0.0102	-0.1502	0.0451	0.6652	0.9503	-0.0087	0.3100	-0.0092	0.3262
22	18.13	2.67	-0.2032	-0.0080	-0.1155	0.0394	0.5685	1.0482	-0.0073	0.3162	-0.0070	0.3016
23	18.13	1.80	-0.1164	-0.0072	-0.0867	0.0618	0.7447	1.0372	-0.0069	0.3249	-0.0067	0.3133
24	18.12	1.10	-0.0478	-0.0049	-0.0605	0.1025	1.2746	1.0412	-0.0068	0.3330	-0.0066	0.3199
25	18.12	0.33	-0.0013	-0.0036	-0.0332	2.8672	25.5640	1.1080	-0.0071	0.3309	-0.0064	0.2987
26	18.13	-0.40	0.0407	-0.0052	-0.0044	-0.1290	-0.1090	1.1419	-0.0063	0.3499	-0.0055	0.3064
27	18.11	-1.20	0.1283	-0.0055	0.0145	-0.0429	0.1134	1.1792	-0.0055	0.3747	-0.0047	0.3178
28	18.11	-1.94	0.1405	-0.0039	0.0432	-0.0278	0.3076	1.2259	-0.0057	0.3749	-0.0046	0.3058
29	18.11	-2.79	0.1870	-0.0020	0.0786	-0.0110	0.4204	1.2456	-0.0077	0.3785	-0.0062	0.3039
30	18.13	-3.61	0.2867	0.0012	0.1009	0.0044	0.3520	1.2296	-0.0073	0.3886	-0.0059	0.3161
31	18.12	-4.44	0.3024	0.0019	0.1392	0.0063	0.4602	1.2620	-0.0069	0.3938	-0.0055	0.3121
32	18.11	-5.18	0.4004	0.0050	0.1656	0.0125	0.4136	1.2734	-0.0049	0.3978	-0.0070	0.3124
33	18.14	-5.95	0.4871	0.0055	0.1978	0.0113	0.4061	1.3179	-0.0058	0.3911	-0.0044	0.2968
34	18.13	-6.76	0.5631	0.0049	0.2276	0.0088	0.4040	1.2980	-0.0030	0.3896	-0.0023	0.3002
35	18.13	-7.57	0.6680	0.0077	0.2545	0.0115	0.3810	1.2998	-0.0050	0.3912	-0.0038	0.3010
36	18.16	-8.39	0.7797	0.0096	0.2785	0.0130	0.3765	1.3079	-0.0058	0.3938	-0.0045	0.3011
37	18.15	-9.16	0.8886	0.0108	0.3024	0.0114	0.3740	1.3213	-0.0045	0.3919	-0.0034	0.2966
38	18.16	-9.93	0.8362	0.0095	0.3323	0.0114	0.3774	1.3310	-0.0043	0.3951	-0.0032	0.2969
39	18.20	-10.76	0.9359	0.0094	0.3458	0.0100	0.3694	1.3279	-0.0031	0.3971	-0.0023	0.2990
40	18.22	-11.46	0.9756	0.0057	0.3633	0.0058	0.3724	1.3491	-0.0007	0.3918	-0.0005	0.2905
41	18.21	-12.31	1.0524	0.0048	0.3871	0.0046	0.3678	1.3157	0.0070	0.3900	0.0053	0.2964
42	18.22	-13.07	1.1471	0.0044	0.3995	0.0038	0.3483	1.3390	-0.0006	0.4053	-0.0005	0.3027
43	18.24	-13.82	1.1850	0.0028	0.4142	0.0024	0.3496	1.3706	-0.0000	0.3975	-0.0000	0.2900
44	18.25	-14.73	1.2386	0.0025	0.4339	0.0021	0.3503	1.3775	-0.0032	0.4103	-0.0024	0.2979
45	18.27	-15.50	1.2507	0.0031	0.4444	0.0025	0.3586	1.4361	-0.0021	0.3979	-0.0015	0.2770
46	18.29	-16.33	1.2772	0.0063	0.4926	0.0044	0.3544	1.4123	-0.0016	0.4081	-0.0026	0.2840

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 170 1.01 1.7 0.0 0.2WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	18.34	-17.12	1.3225	0.0138	0.4500	0.0105	0.3402	1.4150	-0.0000	0.4086	-0.0000	0.2888
48	18.33	-17.96	1.3067	0.0289	0.4221	0.0221	0.3230	1.4836	-0.0118	0.4235	-0.0080	0.2854
49	18.35	-18.78	1.3450	0.0304	0.4078	0.0226	0.3032	1.5127	-0.0114	0.4227	-0.0076	0.2794
50	18.35	-19.60	1.1936	0.0338	0.3700	0.0283	0.3100	1.4723	-0.0121	0.4287	-0.0082	0.2912
51	18.36	-20.18	1.1615	0.0308	0.3525	0.0266	0.3035	1.4704	-0.0124	0.4296	-0.0085	0.2921

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	AX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	171	1.01	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	21.55	19.21	4.4080	-4.0615	-4.5422	4.5023	0.0850	-0.0058	-0.9214		
2	21.53	18.96	4.4979	-4.2033	-4.3470	4.6380	0.0990	-0.0167	-0.9345		
3	21.53	18.23	4.4978	-4.1952	-4.3760	4.5386	0.1310	-0.0127	-0.9539		
4	21.52	17.26	4.3301	-4.2194	-4.5116	4.3505	0.1620	0.0011	-0.9744		
5	21.50	16.48	4.1950	-4.2191	-3.7869	4.5028	0.2070	0.0784	-1.0058		
6	21.50	15.78	4.1881	-4.0835	-3.8034	4.6578	0.2700	0.0490	-0.9750		
7	21.47	14.91	4.1207	-4.1601	-3.4896	4.6305	0.3130	0.0740	-1.0096		
8	21.46	14.20	4.2006	-4.4270	-3.2719	4.3167	0.3260	0.0867	-1.0539		
9	21.46	13.30	4.1463	-4.6289	-3.2944	4.2322	0.3410	0.0405	-1.1164		
10	21.43	12.63	4.0805	-4.8328	-2.9495	3.8084	0.3540	0.0882	-1.1844		
11	21.39	11.81	4.0999	-5.2289	-2.8393	3.4361	0.3480	0.0618	-1.2754		
12	21.36	11.05	4.0518	-5.3795	-2.4318	3.1735	0.3560	0.0778	-1.3277		
13	21.34	10.25	4.0744	-5.8801	-2.1625	2.8815	0.3740	0.1039	-1.4432		
14	21.33	9.40	4.0637	-6.0551	-1.9460	2.5645	0.3700	0.0908	-1.4901		
15	21.32	8.58	4.0642	-6.1778	-1.6798	2.0357	0.3410	0.1096	-1.5201		
16	21.31	7.83	4.0541	-6.3476	-1.5036	1.8541	0.3480	0.1153	-1.5657		
17	21.27	6.94	4.0660	-6.5132	-1.2534	1.3459	0.3110	0.1274	-1.6019		
18	21.26	6.20	4.2848	-7.0966	-1.0376	0.7157	0.2990	0.1071	-1.6562		
19	21.25	5.32	4.3717	-7.4382	-0.8769	0.5357	0.2600	0.1044	-1.7014		
20	21.24	4.52	4.3942	-7.6977	-0.7403	0.0196	0.2680	0.0855	-1.7518		
21	21.19	3.70	4.2654	-8.0613	-0.7578	0.5360	0.1890	0.0985	-1.8699		
22	21.18	2.96	4.2684	-8.2345	-0.5581	0.1265	0.1600	0.1098	-1.9292		
23	21.19	2.16	4.3184	-8.3185	-0.2716	-0.3057	0.0830	0.1043	-1.9263		
24	21.17	1.40	4.3242	-8.5206	-0.2038	-0.1277	0.0610	0.1156	-1.9704		
25	21.16	0.65	4.3564	-8.5587	-0.0745	-0.2177	0.0260	0.1247	-1.9646		
26	21.21	-0.11	4.4571	-8.3727	-0.0686	0.0600	0.0080	0.1231	-1.8785		
27	21.18	-0.93	4.3474	-8.5461	-0.2472	0.6160	-0.0050	0.1333	-1.9658		
28	21.16	-1.75	4.3168	-8.4722	-0.0568	0.4925	-0.0470	0.1219	-1.9626		
29	21.15	-2.53	4.3017	-8.5301	0.0932	0.3755	-0.1040	0.1280	-1.9829		
30	21.16	-3.32	4.2898	-8.4774	0.3098	0.3662	-0.1330	0.1221	-1.9762		
31	21.17	-4.18	4.2642	-8.1816	0.3811	0.3054	-0.1860	0.1183	-1.9487		
32	21.18	-4.95	4.2376	-7.9574	0.4303	0.1614	-0.2060	0.1317	-1.8778		
33	21.20	-5.75	4.2159	-7.6701	0.6427	-0.2109	-0.2470	0.1324	-1.8193		
34	21.22	-6.53	4.1154	-7.3943	0.8451	-0.5892	-0.3050	0.1400	-1.7968		
35	21.23	-7.33	4.0720	-6.9976	1.1629	-1.0772	-0.3190	0.1391	-1.7185		
36	21.26	-8.16	4.0854	-6.5554	1.1987	-1.2893	-0.3370	0.1542	-1.6046		
37	21.27	-8.95	4.0046	-6.2843	1.4572	-1.7701	-0.3390	0.1414	-1.5693		
38	21.31	-9.75	4.0279	-6.0570	1.6544	-2.1052	-0.3410	0.1361	-1.5038		
39	21.32	-10.51	4.0240	-5.7845	1.9499	-2.6209	-0.3500	0.1231	-1.4375		
40	21.34	-11.34	4.0064	-5.5709	2.0715	-2.8541	-0.3240	0.1228	-1.3905		
41	21.35	-12.03	4.0672	-5.3291	2.3286	-3.1031	-0.3260	0.1253	-1.3103		
42	21.39	-12.86	4.0875	-5.0345	2.6208	-3.5211	-0.3280	0.1169	-1.2317		
43	21.36	-13.68	4.0623	-4.8993	2.8300	-3.8601	-0.3210	0.1077	-1.2060		
44	21.40	-14.53	4.0788	-4.6114	2.9889	-4.0115	-0.2890	0.0999	-1.1306		
45	21.41	-15.34	4.1078	-4.5670	3.1546	-4.1475	-0.2480	0.0961	-1.1116		
46	21.40	-16.18	4.1164	-4.3451	3.4055	-4.4607	-0.2110	0.0863	-1.0556		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		171	1.01	1.7	0.0 B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	21.45	-16.98	4.2200	-4.2573	3.6165	-4.4542	-0.1660	0.0817	-1.0088		
48	21.47	-17.84	4.2889	-4.2897	3.9280	-4.3373	-0.1120	0.0634	-1.0002		
49	21.46	-18.64	4.3098	-4.1970	4.2003	-4.3447	-0.0580	0.0664	-0.9738		
50	21.46	-19.50	4.2897	-4.1809	4.3044	-4.0135	0.0410	0.0603	-0.9746		
51	21.49	-19.94	4.3747	-4.0929	4.4017	-3.6867	0.1110	0.0543	-0.9356		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 171 1.01 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	21.55	19.21	-0.4141	0.0524	-0.1629	-0.1265	0.3933	0.7302	0.0397	0.0861	0.0544	0.1180
2	21.53	18.96	-0.3686	0.0536	-0.1723	-0.1453	0.4075	0.7006	0.0401	0.0895	0.0572	0.1277
3	21.53	18.23	-0.3368	0.0520	-0.1580	-0.1543	0.4692	0.7149	0.0401	0.0904	0.0561	0.1265
4	21.52	17.26	-0.3392	0.0493	-0.1408	-0.1454	0.4151	0.7065	0.0401	0.0908	0.0568	0.1286
5	21.50	16.48	-0.2676	0.0465	-0.1275	-0.1739	0.4767	0.6980	0.0395	0.0840	0.0566	0.1204
6	21.50	15.78	-0.2390	0.0416	-0.1068	-0.1742	0.4470	0.5952	0.0403	0.0811	0.0677	0.1363
7	21.47	14.91	-0.1972	0.0368	-0.0811	-0.1868	0.4113	0.4324	0.0395	0.0819	0.0913	0.1894
8	21.46	14.20	-0.1726	0.0378	-0.0828	-0.2190	0.4798	0.4579	0.0399	0.0695	0.0872	0.1518
9	21.46	13.50	-0.1151	0.0350	-0.0712	-0.3045	0.6191	0.4853	0.0400	0.0534	0.0824	0.1101
10	21.43	12.63	-0.0972	0.0357	-0.0729	-0.3677	0.7499	0.4838	0.0400	0.0511	0.0828	0.1057
11	21.39	11.81	-0.0989	0.0365	-0.0620	-0.3695	0.6275	0.5028	0.0401	0.0489	0.0798	0.0972
12	21.36	11.05	-0.0735	0.0341	-0.0509	-0.4639	0.6924	0.5093	0.0401	0.0405	0.0787	0.0796
13	21.34	10.25	0.0348	0.0300	-0.0265	0.8634	-0.7616	0.5159	0.0399	0.0479	0.0773	0.0929
14	21.33	9.40	0.0388	0.0249	-0.0145	0.6416	-0.3730	0.5247	0.0392	0.0464	0.0748	0.0884
15	21.32	8.58	0.0492	0.0328	-0.0071	0.6665	-0.1444	0.5414	0.0395	0.0453	0.0729	0.0837
16	21.31	7.83	0.1592	0.0315	0.0092	0.1981	0.0581	0.5054	0.0388	0.0387	0.0768	0.0766
17	21.27	6.94	0.1012	0.0436	0.0096	0.4312	0.0951	0.5159	0.0392	0.0308	0.0761	0.0598
18	21.26	6.20	0.2628	0.0338	0.0396	0.1288	0.1506	0.5989	0.0388	0.0671	0.0648	0.1120
19	21.25	5.32	0.2543	0.0275	0.0627	0.1083	0.2467	0.6026	0.0389	0.0816	0.0646	0.1354
20	21.24	4.52	0.3466	0.0039	0.1095	0.0112	0.3159	0.6057	0.0354	0.1056	0.0584	0.1744
21	21.19	3.70	0.2013	0.0132	0.0687	0.0658	0.3412	0.6236	0.0352	0.1081	0.0565	0.1734
22	21.18	2.96	0.2164	0.0264	0.0631	0.1222	0.2916	0.6209	0.0352	0.1070	0.0567	0.1723
23	21.19	2.16	0.1807	0.0398	0.0343	0.2202	0.1899	0.6036	0.0343	0.1155	0.0568	0.1914
24	21.17	1.40	0.1622	0.0303	0.0152	0.1868	0.0940	0.5048	0.0334	0.1312	0.0662	0.2599
25	21.16	0.65	0.1109	0.0301	0.0051	0.2714	0.0456	0.4383	0.0332	0.1398	0.0758	0.3188
26	21.21	-0.11	-0.0318	0.0044	0.0036	-0.1383	-0.1133	0.3815	0.0332	0.1214	0.0870	0.3183
27	21.18	-0.93	-0.1220	-0.0197	-0.0148	0.1619	0.1217	0.4201	0.0332	0.0875	0.0790	0.2083
28	21.16	-1.75	-0.1523	-0.0149	-0.0355	0.0578	0.2334	0.3594	0.0327	0.0914	0.0911	0.2542
29	21.15	-2.53	-0.2394	-0.0243	-0.0577	0.1015	0.2409	0.3812	0.0334	0.0734	0.0877	0.1926
30	21.16	-3.32	-0.2828	-0.0316	-0.0602	0.1119	0.2127	0.3666	0.0327	0.0595	0.0893	0.1622
31	21.17	-4.18	-0.2916	-0.0283	-0.0888	0.0972	0.3044	0.3875	0.0327	0.0481	0.0845	0.1242
32	21.18	-4.95	-0.3345	-0.0467	-0.0611	0.1395	0.1826	0.3332	0.0318	0.0360	0.0954	0.1079
33	21.20	-5.75	-0.2981	-0.0485	-0.0691	0.1626	0.2316	0.3455	0.0314	0.0254	0.0908	0.0734
34	21.22	-6.53	-0.2658	-0.0402	-0.0780	0.1512	0.2933	0.3427	0.0307	0.0142	0.0897	0.0415
35	21.23	-7.33	-0.2418	-0.0493	-0.0780	0.2019	0.1157	0.3146	0.0297	-0.0011	0.0945	-0.0036
36	21.26	-8.16	-0.1900	-0.0415	-0.0360	0.2184	0.1895	0.2985	0.0288	-0.0088	0.0966	-0.0295
37	21.27	-8.95	-0.1504	-0.0414	-0.0106	0.2613	0.0868	0.2165	0.0279	-0.0124	0.1288	-0.0571
38	21.31	-9.75	-0.0604	-0.0405	0.0039	0.6657	-0.0642	0.2169	0.0267	-0.0304	0.1233	-0.1403
39	21.32	-10.51	-0.0200	-0.0354	0.0050	1.7016	-0.2389	0.2198	0.0260	-0.0430	0.1185	-0.1954
40	21.34	-11.34	0.0147	-0.0373	0.0252	-2.5404	1.7142	0.1774	0.0249	-0.0532	0.1403	-0.2998
41	21.35	-12.05	0.0279	-0.0352	0.0330	-1.2614	1.1827	0.1289	0.0240	-0.0621	0.1862	-0.4821
42	21.39	-12.06	0.0923	-0.0317	0.0362	-0.3434	0.3928	0.1412	0.0240	-0.0724	0.1703	-0.5131
43	21.36	-13.68	0.1103	-0.0354	0.0522	-0.3213	0.4737	0.1169	0.0233	-0.0795	0.1997	-0.6805
44	21.40	-14.53	0.1833	-0.0398	0.0807	-0.2174	0.4401	0.1026	0.0235	-0.0948	0.2290	-0.9241
45	21.41	-15.34	0.2092	-0.0427	0.0945	-0.2041	0.4518	0.0171	0.0229	-0.0979	1.3419	-5.7253
46	21.40	-16.18	0.2920	-0.0459	0.1068	-0.1571	0.3657	-0.0534	0.0228	-0.1077	-0.4269	2.0167

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 171 1.01 1.7 0.0 82MUF12 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	21.45	-16.98	0.2656	-0.0475	0.1401	-0.1790	0.5275	-0.0114	0.0226	-0.1240	-1.9821	10.8771
48	21.47	-17.84	0.3619	-0.0485	0.1390	-0.1340	0.3840	-0.0044	0.0202	-0.1165	-4.6015	26.4923
49	21.46	-18.64	0.3339	-0.0531	0.1693	-0.1590	0.5069	0.0045	0.0225	-0.1342	5.0102	-29.8224
50	21.46	-19.50	0.3815	-0.0577	0.1781	-0.1512	0.4669	0.0052	0.0217	-0.1366	4.1819	-26.2822
51	21.49	-19.94	0.4358	-0.0608	0.1646	-0.1396	0.4222	-0.0568	0.0218	-0.1399	-0.3837	2.4635

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH			XX10-6	PHI	CNF	L	OEL1	DEL2	OEL3	DEL4	TRANSITION		
6			171	1.01	1.7	0.0	B2HOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4	
1	21.55	19.21	-1.2397	-0.0234	-0.4367	0.0189	0.3522	0.4628	-0.0500	0.1726	-0.1081	0.3730	
2	21.53	18.96	-1.1887	-0.0239	-0.4456	0.0201	0.3748	0.4270	-0.0513	0.1843	-0.1202	0.4316	
3	21.53	18.23	-1.2575	-0.0202	-0.4586	0.0161	0.3647	0.5001	-0.0566	0.1883	-0.1132	0.3766	
4	21.52	17.26	-1.2516	-0.0174	-0.4571	0.0139	0.3652	0.4856	-0.0558	0.1948	-0.1150	0.4012	
5	21.50	16.48	-1.2127	-0.0058	-0.4792	0.0048	0.3951	0.4938	-0.0506	0.1942	-0.1025	0.3933	
6	21.50	15.78	-1.2596	0.0017	-0.4806	-0.0013	0.3816	0.5523	-0.0472	0.2017	-0.0854	0.3653	
7	21.47	14.91	-1.2200	0.0073	-0.4826	-0.0060	0.3756	0.5623	-0.0445	0.2013	-0.0791	0.3579	
8	21.46	14.20	-1.1676	0.0058	-0.4732	-0.0050	0.4053	0.6075	-0.0442	0.2138	-0.0728	0.3520	
9	21.46	13.30	-1.1431	0.0045	-0.4526	-0.0039	0.3954	0.6439	-0.0421	0.2250	-0.0654	0.3495	
10	21.43	12.63	-1.0785	0.0017	-0.4374	-0.0016	0.4055	0.7054	-0.0399	0.2404	-0.0565	0.3409	
11	21.39	11.81	-0.9728	-0.0004	-0.4171	0.0005	0.4288	0.7322	-0.0370	0.2427	-0.0506	0.3314	
12	21.36	11.05	-0.9043	-0.0037	-0.3950	0.0041	0.4368	0.7732	-0.0333	0.2618	-0.0431	0.3386	
13	21.34	10.25	-0.8574	-0.0058	-0.3743	0.0068	0.4365	0.8298	-0.0323	0.2647	-0.0390	0.3190	
14	21.33	9.40	-0.7381	-0.0079	-0.3536	0.0107	0.4791	0.8869	-0.0270	0.2844	-0.0304	0.3207	
15	21.32	8.58	-0.6443	-0.0083	-0.3245	0.0120	0.4680	0.8750	-0.0259	0.2853	-0.0296	0.3260	
16	21.31	7.83	-0.6289	-0.0112	-0.3006	0.0178	0.4780	0.8964	-0.0247	0.2992	-0.0275	0.3338	
17	21.27	6.94	-0.5832	-0.0115	-0.2614	0.0198	0.4482	0.8955	-0.0231	0.2957	-0.0258	0.3302	
18	21.26	6.20	-0.4743	-0.0126	-0.2400	0.0267	0.5061	0.9352	-0.0211	0.2975	-0.0226	0.3181	
19	21.25	5.32	-0.4187	-0.0128	-0.2096	0.0307	0.5306	0.9792	-0.0194	0.3076	-0.0198	0.3141	
20	21.24	4.52	-0.3435	-0.0144	-0.1833	0.0419	0.5334	0.9681	-0.0149	0.3233	-0.0154	0.3339	
21	21.19	3.70	-0.2376	-0.0141	-0.1601	0.0593	0.6741	1.0669	-0.0128	0.3331	-0.0120	0.3122	
22	21.18	2.96	-0.1729	-0.0119	-0.1291	0.0691	0.7467	1.0495	-0.0103	0.3414	-0.0099	0.3253	
23	21.19	2.16	-0.1416	-0.0081	-0.0865	0.0572	0.6108	1.0715	-0.0092	0.3387	-0.0086	0.3161	
24	21.17	1.40	-0.0314	-0.0065	-0.0705	0.2086	2.2440	1.1712	-0.0078	0.3456	-0.0067	0.2951	
25	21.16	0.65	0.0134	-0.0042	-0.0497	-0.3134	-3.7116	1.1594	-0.0076	0.3598	-0.0066	0.3104	
26	21.21	-0.11	0.0102	-0.0058	-0.0107	-0.5685	-1.0491	1.2084	-0.0066	0.3759	-0.0055	0.3110	
27	21.18	-0.93	0.0984	-0.0036	-0.0050	-0.0366	0.0507	1.2754	-0.0046	0.3978	-0.0036	0.3135	
28	21.16	-1.75	0.1198	-0.0020	0.0422	-0.0167	0.3524	1.3437	-0.0049	0.3830	-0.0036	0.2851	
29	21.15	-2.53	0.1994	0.0008	0.0691	0.0043	0.3468	1.3278	-0.0055	0.3991	-0.0041	0.3006	
30	21.16	-3.32	0.2325	0.0023	0.0987	0.0099	0.4244	1.3453	0.0014	0.3951	0.0011	0.2937	
31	21.17	-4.18	0.3195	0.0062	0.1322	0.0194	0.4136	1.3285	0.0022	0.3966	0.0017	0.2985	
32	21.18	-4.95	0.3880	0.0081	0.1578	0.0210	0.4066	1.3106	0.0111	0.3812	0.0085	0.2909	
33	21.20	-5.75	0.4738	0.0100	0.1861	0.0211	0.3927	1.3143	0.0122	0.3685	0.0093	0.2804	
34	21.22	-6.53	0.5416	0.0102	0.2166	0.0189	0.3999	1.2977	0.0123	0.3558	0.0095	0.2742	
35	21.23	-7.33	0.5948	0.0112	0.2540	0.0189	0.4270	1.1798	0.0123	0.3202	0.0105	0.2714	
36	21.26	-8.16	0.7028	0.0096	0.2765	0.0137	0.3734	1.1676	0.0138	0.3299	0.0118	0.2625	
37	21.27	-8.95	0.8141	0.0090	0.2961	0.0111	0.3638	1.1515	0.0123	0.3254	0.0107	0.2626	
38	21.31	-9.75	0.8540	0.0078	0.3281	0.0091	0.3841	1.1450	0.0138	0.3254	0.0121	0.2842	
39	21.32	-10.51	0.9609	0.0076	0.3462	0.0080	0.3603	1.1442	0.0134	0.3251	0.0117	0.2841	
40	21.34	-11.34	1.0491	0.0065	0.3639	0.0062	0.3468	1.1075	0.0134	0.3210	0.0113	0.2715	
41	21.35	-12.05	1.0856	0.0058	0.3901	0.0054	0.3594	1.1713	0.0141	0.3280	0.0121	0.2800	
42	21.39	-12.86	1.1917	0.0052	0.4031	0.0044	0.3382	1.2207	0.0143	0.3187	0.0117	0.2598	
43	21.36	-13.68	1.1914	0.0035	0.4303	0.0029	0.3612	1.1791	0.0147	0.3342	0.0125	0.2834	
44	21.40	-14.53	1.2665	0.0020	0.4378	0.0016	0.3457	1.2355	0.0158	0.3239	0.0128	0.2622	
45	21.41	-15.34	1.3579	0.0008	0.4483	0.0006	0.3301	1.2147	0.0163	0.3367	0.0134	0.2772	
46	21.40	-16.18	1.3716	0.0015	0.4625	0.0011	0.3372	1.2310	0.0176	0.3410	0.0143	0.2770	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6												
6 171 1.01 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	21.45	-16.98	1.3935	0.0085	0.4587	0.0061	0.3291	1.2971	0.0176	0.3371	0.0136	0.2599
48	21.47	-17.84	1.3403	0.0267	0.4376	0.0199	0.3261	1.2318	0.0179	0.3643	0.0146	0.2957
49	21.46	-18.64	1.3808	0.0313	0.4166	0.0227	0.3017	1.2548	0.0183	0.3719	0.0146	0.2964
50	21.46	-19.50	1.2244	0.0316	0.3773	0.0258	0.3081	1.3199	0.0186	0.3676	0.0141	0.2785
51	21.49	-19.94	1.1815	0.0306	0.3538	0.0259	0.2994	1.2944	0.0180	0.3751	0.0139	0.2898

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	172	1.05	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.02	19.55	0.1719	-0.1736	-3.9170	7.9775	-0.0390	0.2278	-1.0102		
2	0.02	19.54	0.1252	-0.1503	-3.9921	8.0616	-0.0330	0.2311	-1.2003		
3	0.01	19.41	0.1332	-0.2155	-3.9774	8.0810	-0.0350	0.2218	-1.6177		
4	0.0	18.52	0.1036	-0.0670	-3.8409	7.8849	-0.0260	0.2123	-0.6471		
5	0.01	17.72	0.0631	0.0057	-3.8666	7.8249	-0.0320	0.2148	0.0897		
6	0.01	16.90	0.0682	-0.0045	-3.6203	7.6611	-0.0310	0.2140	-0.0657		
7	0.01	16.14	0.0124	0.2666	-3.5086	7.4688	-0.0220	0.2179	21.5032		
8	0.01	15.39	0.0028	0.1271	-3.0853	6.9991	-0.0170	0.2412	45.5857		
9	0.01	14.62	0.0030	0.1138	-3.0254	6.8302	-0.0110	0.2173	37.9333		
10	-0.01	13.80	-0.0204	0.2085	-2.8211	6.5222	-0.0050	0.2262	-10.2235		
11	0.02	13.07	-0.0047	0.2226	-2.5926	6.1413	-0.0020	0.2319	-47.3575		
12	0.02	12.31	0.0324	0.1636	-2.4381	5.8300	-0.0070	0.2363	5.0506		
13	0.01	11.54	-0.0104	0.1585	-2.3514	5.6296	0.0080	0.2255	-15.2462		
14	0.0	10.72	-0.0181	0.2063	-2.1524	5.2751	0.0090	0.2272	-11.4000		
15	-0.01	9.95	0.0121	0.1220	-2.0752	5.0050	0.0016	0.2277	10.0876		
16	0.01	9.16	0.0121	0.1170	-1.8058	4.5458	0.0060	0.2376	9.6744		
17	0.01	8.31	0.0017	0.1186	-1.7250	4.3587	0.0130	0.2280	69.7764		
18	0.01	7.50	-0.0186	0.1520	-1.5536	3.9538	0.0160	0.2310	-8.1742		
19	-0.01	6.75	-0.0259	0.1372	-1.3618	3.6093	0.0180	0.2365	-5.2996		
20	0.01	5.94	0.0275	0.0405	-1.1552	3.1131	0.0140	0.2353	1.4727		
21	0.01	5.13	0.0217	0.0126	-1.1667	2.8953	0.0170	0.2359	0.5816		
22	-0.01	4.32	0.0074	0.0526	-0.8452	2.2981	0.0150	0.2331	7.1135		
23	0.01	3.56	0.0172	0.0359	-0.7904	2.0454	0.0170	0.2343	2.0884		
24	0.0	2.79	0.0092	0.0311	-0.5924	1.6423	0.0130	0.2379	3.3829		
25	-0.01	2.00	0.0039	0.0185	-0.4757	1.2830	0.0140	0.2408	4.7538		
26	0.0	1.24	0.0223	0.0038	-0.3243	0.8919	0.0130	0.2526	0.1695		
27	0.0	0.49	0.0518	-0.0705	-0.2062	0.5796	0.0110	0.2562	-1.3614		
28	-0.01	-0.31	0.0187	-0.0202	-0.0876	0.2008	0.0140	0.2669	-1.0791		
29	0.0	-1.07	0.0355	-0.0347	0.1294	-0.1851	0.0130	0.2708	-0.9775		
30	0.0	-1.91	0.0477	-0.0448	0.2320	-0.4227	0.0100	0.2685	-1.1878		
31	0.01	-2.69	0.0405	-0.0267	0.3349	-0.7818	0.0130	0.2736	-0.6593		
32	-0.02	-3.56	0.0434	-0.0428	0.4641	-1.1737	0.0110	0.2729	-0.9853		
33	0.01	-4.30	0.0523	-0.0562	0.5839	-1.4664	0.0090	0.2726	-1.0750		
34	0.0	-5.12	0.0232	-0.0245	0.7402	-1.9562	0.0180	0.2738	-1.0552		
35	-0.01	-5.83	0.0368	-0.0525	0.8573	-2.2091	0.0090	0.2759	-1.4272		
36	-0.01	-6.66	0.0507	-0.0370	1.1129	-2.7468	0.0080	0.2759	-0.7294		
37	0.0	-7.44	0.0404	-0.0995	1.1576	-2.9185	0.0130	0.2907	-2.4644		
38	-0.02	-8.23	0.0162	-0.0637	1.3666	-3.4781	0.0140	0.2884	-1.7571		
39	0.0	-9.03	0.0449	-0.0549	1.5633	-3.9094	0.0120	0.2915	-1.2218		
40	0.0	-9.87	0.0246	-0.0734	1.6377	-4.1655	0.0100	0.2888	-2.9854		
41	0.0	-10.61	0.0642	-0.1699	1.9179	-4.5989	0.0120	0.2793	-2.6461		
42	-0.02	-11.30	0.0435	-0.1769	2.0032	-4.8863	0.0120	0.2736	-4.0667		
43	0.0	-12.13	0.0645	-0.1813	2.1635	-5.2736	0.0080	0.2690	-2.8109		
44	0.0	-12.87	0.0755	-0.1927	2.4584	-5.6834	0.0	0.2604	-2.5523		
45	-0.01	-13.68	0.0447	-0.1996	2.5132	-5.9691	-0.0040	0.2591	-4.4649		
46	-0.01	-14.50	0.0741	-0.2987	2.6975	-6.1343	-0.0050	0.2502	-4.0316		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 172 1.05 1.7				0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	-0.03	-15.33	0.0394	-0.2331	2.9263	-6.5485	-0.0140	0.2589	-5.9178		
48	-0.01	-16.09	0.0608	-0.2481	3.0885	-6.7786	-0.0030	0.2540	-4.0809		
49	-0.02	-16.98	0.0480	-0.1482	3.1985	-7.0915	-0.0070	0.2671	-3.0875		
50	0.0	-17.78	0.0426	-0.1596	3.3884	-7.3554	-0.0080	0.2632	-3.7474		
51	0.0	-18.68	0.0994	-0.2411	3.7090	-7.7013	-0.0050	0.2650	-2.4262		
52	-0.02	-19.46	0.0932	-0.3054	3.9118	-7.9132	-0.0010	0.2743	-3.2777		
53	-0.03	-20.29	0.0951	-0.3941	4.0538	-8.1080	-0.0010	0.2840	-4.1445		
54	-0.03	-20.73	0.1826	-0.6626	4.2152	-8.2520	-0.0030	0.2663	-3.6289		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH RX10-6		PHI CONF		L		DEL1	DEL2	DEL3	DEL4	TRANSITION
6		172 1.05 1.7		0.0 B2WOF12		0.0		0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	0.02	19.55	-1.2499	0.0091	-0.3552	-0.0073	0.2842	-0.4412	0.0347	-0.2199	-0.0787	0.4984
2	0.02	19.54	-1.2933	0.0090	-0.3562	-0.0070	0.2755	-0.4665	0.0350	-0.2251	-0.0750	0.4826
3	0.01	19.41	-1.2531	0.0091	-0.3632	-0.0073	0.2898	-0.4579	0.0348	-0.2191	-0.0760	0.4784
4	0.0	18.52	-1.2330	0.0091	-0.3481	-0.0074	0.2823	-0.4449	0.0348	-0.2254	-0.0782	0.5067
5	0.01	17.72	-1.2330	0.0088	-0.3481	-0.0071	0.2823	-0.4486	0.0350	-0.2268	-0.0780	0.5055
6	0.01	16.90	-1.1792	0.0077	-0.3461	-0.0065	0.2939	-0.4502	0.0348	-0.2238	-0.0773	0.4971
7	0.01	16.14	-1.1395	0.0064	-0.3297	-0.0056	0.2893	-0.4659	0.0350	-0.2257	-0.0752	0.4845
8	0.01	15.39	-1.0690	0.0061	-0.3240	-0.0058	0.3031	-0.4696	0.0349	-0.2243	-0.0743	0.4776
9	0.01	14.62	-1.0600	0.0057	-0.3093	-0.0054	0.2918	-0.4678	0.0350	-0.2296	-0.0749	0.4907
10	-0.01	13.80	-1.0224	0.0056	-0.2962	-0.0055	0.2897	-0.4635	0.0349	-0.2310	-0.0753	0.4984
11	0.02	13.07	-0.9381	0.0058	-0.3022	-0.0062	0.3221	-0.4858	0.0349	-0.2311	-0.0719	0.4756
12	0.02	12.31	-0.9276	0.0058	-0.2764	-0.0063	0.2980	-0.4737	0.0349	-0.2297	-0.0736	0.4850
13	0.01	11.54	-0.8453	0.0067	-0.2714	-0.0080	0.3216	-0.4836	0.0350	-0.2299	-0.0724	0.4755
14	0.0	10.72	-0.8413	0.0055	-0.2545	-0.0066	0.3024	-0.4979	0.0348	-0.2349	-0.0700	0.4718
15	-0.01	9.95	-0.7486	0.0054	-0.2497	-0.0072	0.3336	-0.4572	0.0349	-0.2282	-0.0764	0.4992
16	0.01	9.16	-0.7051	0.0063	-0.2365	-0.0090	0.3355	-0.4897	0.0349	-0.2286	-0.0712	0.4667
17	0.01	8.31	-0.6581	0.0049	-0.2218	-0.0075	0.3370	-0.4904	0.0349	-0.2343	-0.0711	0.4778
18	0.01	7.50	-0.6402	0.0053	-0.1598	-0.0084	0.3121	-0.5090	0.0350	-0.2350	-0.0687	0.4617
19	-0.01	6.75	-0.5466	0.0052	-0.1935	-0.0096	0.3548	-0.4915	0.0351	-0.2387	-0.0715	0.4856
20	0.01	5.94	-0.4942	0.0049	-0.1737	-0.0099	0.3514	-0.4978	0.0350	-0.2366	-0.0703	0.4752
21	0.01	5.13	-0.4539	0.0056	-0.1501	-0.0123	0.3306	-0.4709	0.0350	-0.2392	-0.0744	0.5079
22	-0.01	4.32	-0.3435	0.0051	-0.1326	-0.0148	0.3859	-0.5042	0.0351	-0.2380	-0.0696	0.4720
23	0.01	3.56	-0.3133	0.0045	-0.1178	-0.0145	0.3760	-0.5112	0.0351	-0.2371	-0.0686	0.4639
24	0.0	2.79	-0.2208	0.0041	-0.1046	-0.0186	0.4736	-0.5193	0.0351	-0.2369	-0.0676	0.4562
25	-0.01	2.00	-0.1670	0.0036	-0.0810	-0.0216	0.4853	-0.5193	0.0351	-0.2367	-0.0676	0.4559
26	0.0	1.24	-0.1336	0.0033	-0.0545	-0.0247	0.4081	-0.4945	0.0351	-0.2393	-0.0711	0.4838
27	0.0	0.49	-0.0788	0.0025	-0.0361	-0.0324	0.4576	-0.4916	0.0351	-0.2387	-0.0714	0.4855
28	-0.01	-0.31	-0.0192	0.0011	-0.0069	-0.0599	0.3593	-0.5013	0.0354	-0.2408	-0.0707	0.4804
29	0.0	-1.07	0.0164	-0.0004	0.0042	-0.0274	0.2539	-0.5140	0.0352	-0.2387	-0.0686	0.4643
30	0.0	-1.91	0.0821	-0.0015	0.0206	-0.0183	0.2504	-0.5001	0.0351	-0.2404	-0.0703	0.4808
31	0.01	-2.69	0.1289	-0.0033	0.0476	-0.0260	0.3697	-0.5110	0.0351	-0.2427	-0.0688	0.4749
32	-0.02	-3.56	0.2023	-0.0045	0.0629	-0.0222	0.3110	-0.5057	0.0352	-0.2419	-0.0697	0.4783
33	0.01	-4.30	0.2433	-0.0055	0.0827	-0.0226	0.3398	-0.5063	0.0351	-0.2415	-0.0694	0.4770
34	0.0	-5.12	0.3121	-0.0066	0.1044	-0.0211	0.3345	-0.5268	0.0353	-0.2441	-0.0671	0.4634
35	-0.01	-5.83	0.3618	-0.0075	0.1182	-0.0207	0.3266	-0.5075	0.0352	-0.2431	-0.0694	0.4790
36	-0.01	-6.66	0.4197	-0.0087	0.1445	-0.0207	0.3451	-0.5216	0.0354	-0.2432	-0.0678	0.4662
37	0.0	-7.44	0.4336	-0.0092	0.1656	-0.0212	0.3819	-0.5169	0.0353	-0.2399	-0.0684	0.4642
38	-0.02	-8.23	0.5338	-0.0104	0.1843	-0.0196	0.3452	-0.4956	0.0353	-0.2459	-0.0713	0.4962
39	0.0	-9.03	0.6405	-0.0109	0.1950	-0.0171	0.3045	-0.5081	0.0354	-0.2428	-0.0696	0.4778
40	0.0	-9.87	0.6612	-0.0118	0.2104	-0.0178	0.3281	-0.5134	0.0356	-0.2444	-0.0693	0.4760
41	0.0	-10.61	0.7230	-0.0135	0.2304	-0.0187	0.3186	-0.5087	0.0359	-0.2424	-0.0706	0.4765
42	-0.02	-11.30	0.7831	-0.0145	0.2390	-0.0186	0.3053	-0.5057	0.0354	-0.2419	-0.0700	0.4783
43	0.0	-12.13	0.7824	-0.0147	0.2641	-0.0188	0.3376	-0.5095	0.0355	-0.2411	-0.0697	0.4731
44	0.0	-12.87	0.8547	-0.0150	0.2736	-0.0176	0.3201	-0.4777	0.0351	-0.2379	-0.0734	0.4979
45	-0.01	-13.68	0.9015	-0.0152	0.2861	-0.0169	0.3174	-0.4674	0.0352	-0.2379	-0.0753	0.5090
46	-0.01	-14.50	0.9218	-0.0145	0.2973	-0.0158	0.3225	-0.4718	0.0359	-0.2350	-0.0761	0.4981

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 172 1.05 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	-0.03	-15.33	0.9863	-0.0151	0.3063	-0.0154	0.3105	-0.4516	0.0352	-0.2339	-0.0779	0.5179
48	-0.01	-16.09	1.0199	-0.0142	0.3146	-0.0140	0.3084	-0.4835	0.0353	-0.2373	-0.0730	0.4908
49	-0.02	-16.98	1.0533	-0.0161	0.3253	-0.0153	0.3088	-0.4824	0.0348	-0.2341	-0.0721	0.4853
50	0.0	-17.78	1.0967	-0.0171	0.3318	-0.0156	0.3026	-0.4814	0.0345	-0.2323	-0.0717	0.4825
51	0.0	-18.68	1.1003	-0.0179	0.3514	-0.0163	0.3194	-0.4911	0.0347	-0.2309	-0.0707	0.4702
52	-0.02	-19.46	1.1332	-0.0184	0.3661	-0.0163	0.3231	-0.4950	0.0344	-0.2275	-0.0736	0.4597
53	-0.03	-20.29	1.2237	-0.0196	0.3606	-0.0160	0.2946	-0.4958	0.0342	-0.2285	-0.0691	0.4609
54	-0.03	-20.73	1.2130	-0.0183	0.3782	-0.0151	0.3118	-0.4706	0.0384	-0.2187	-0.0817	0.4647

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CNLF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 172 1.05 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	0.02	19.55	-1.0205	0.0032	-0.3841	-0.0032	0.3764	-0.0617	0.0138	-0.0079	-0.2244	0.1274
2	0.02	19.54	-0.9620	0.0023	-0.3550	-0.0024	0.4106	-0.0798	0.0160	-0.0089	-0.2011	0.1114
3	0.01	19.41	-0.9883	0.0024	-0.3871	-0.0024	0.3917	-0.0572	0.0182	-0.0048	-0.3181	0.0832
4	0.0	18.52	-0.9443	0.0029	-0.3897	-0.0031	0.4127	-0.0348	0.0078	-0.0096	-0.2241	0.2757
5	0.01	17.72	-0.9476	0.0022	-0.3837	-0.0024	0.4049	-0.0775	0.0129	-0.0114	-0.1671	0.1474
6	0.01	16.90	-0.8873	0.0028	-0.3842	-0.0032	0.4329	-0.0798	0.0093	-0.0112	-0.1165	0.1402
7	0.01	16.14	-0.9079	0.0027	-0.3762	-0.0030	0.4144	-0.0627	-0.0005	-0.0099	0.0080	0.1578
8	0.01	15.39	-0.8199	0.0013	-0.3689	-0.0016	0.4499	-0.0605	0.0010	-0.0065	-0.0174	0.1068
9	0.01	14.62	-0.8532	0.0011	-0.3498	-0.0013	0.4100	-0.0506	-0.0023	-0.0015	0.0454	0.0289
10	-0.01	13.80	-0.8176	0.0005	-0.3364	-0.0007	0.4115	-0.1083	-0.0033	0.0101	0.0309	-0.0934
11	0.02	13.07	-0.7692	0.0009	-0.3320	-0.0012	0.4316	-0.0948	-0.0024	0.0085	0.0253	-0.0896
12	0.02	12.31	-0.6828	0.0009	-0.3306	-0.0013	0.4842	-0.0746	-0.0043	0.0008	0.0583	-0.0113
13	0.01	11.54	-0.6710	-0.0001	-0.3112	0.0002	0.4637	-0.0417	-0.0039	0.0055	0.0935	-0.1320
14	0.0	10.72	-0.6121	-0.0004	-0.2961	0.0007	0.4838	-0.0416	-0.0042	0.0055	0.1021	-0.1331
15	-0.01	9.95	-0.5708	0.0002	-0.2881	-0.0004	0.5047	0.0086	-0.0042	-0.0026	-0.4941	-0.3063
16	0.01	9.16	-0.5432	-0.0005	-0.2673	0.0009	0.4921	-0.0334	-0.0039	0.0132	0.1167	-0.3943
17	0.01	8.31	-0.4760	-0.0010	-0.2590	0.0022	0.5441	-0.0483	-0.0022	0.0155	0.0466	-0.3210
18	0.01	7.50	-0.4307	-0.0001	-0.2416	0.0003	0.5609	-0.0311	-0.0022	0.0164	0.0707	-0.5285
19	-0.01	6.75	-0.4047	-0.0012	-0.2216	0.0031	0.5476	-0.0308	-0.0009	0.0134	0.0308	-0.4363
20	0.01	5.94	-0.3420	-0.0009	-0.1990	0.0026	0.5817	0.0051	-0.0014	0.0092	-0.2843	1.8038
21	0.01	5.13	-0.3168	-0.0012	-0.1753	0.0039	0.5538	-0.0098	-0.0015	0.0134	0.1581	-1.3709
22	-0.01	4.32	-0.2209	-0.0004	-0.1544	0.0018	0.6990	0.0014	-0.0005	0.0091	-0.3928	6.4761
23	0.01	3.56	-0.1591	-0.0005	-0.1418	0.0031	0.8914	-0.0142	-0.0020	0.0177	0.1443	-1.2442
24	0.0	2.79	-0.1549	-0.0012	-0.1123	0.0081	0.7251	-0.0169	-0.0019	0.0143	0.1154	-0.8443
25	-0.01	2.00	-0.1282	-0.0008	-0.0864	0.0062	0.6741	-0.0096	-0.0024	0.0135	0.2500	-1.4064
26	0.0	1.24	-0.0629	-0.0013	-0.0651	0.0215	1.0359	-0.0126	-0.0024	0.0114	0.1904	-0.9049
27	0.0	0.49	-0.0381	-0.0028	-0.0371	0.0748	0.9736	0.0118	-0.0019	0.0109	-0.1652	0.9264
28	-0.01	-0.31	0.0070	-0.0041	-0.0102	-0.5856	-1.4525	0.0174	-0.0019	0.0023	-0.1092	0.1321
29	0.0	-1.07	0.1050	-0.0046	-0.0092	-0.0438	-0.0877	-0.0126	-0.0024	0.0114	0.1904	-0.9049
30	0.0	-1.91	0.1379	-0.0045	0.0155	-0.0330	0.1157	-0.0090	-0.0024	0.0110	0.2666	-1.2223
31	0.01	-2.69	0.1710	-0.0039	0.0418	-0.0228	0.2443	-0.0335	-0.0031	0.0114	0.0940	-0.3414
32	-0.02	-3.36	0.1960	-0.0044	0.0707	-0.0227	0.3608	-0.0343	-0.0024	0.0140	0.0700	-0.4073
33	0.01	-4.30	0.2603	-0.0047	0.0858	-0.0181	0.3298	-0.0090	-0.0025	0.0110	0.2777	-1.2223
34	0.0	-5.12	0.3257	-0.0039	0.1010	-0.0120	0.3102	-0.0046	-0.0039	0.0087	0.8585	-1.8842
35	-0.01	-5.83	0.3298	-0.0037	0.1330	-0.0112	0.4032	-0.0044	-0.0029	0.0068	0.6703	-1.5531
36	-0.01	-6.66	0.3877	-0.0026	0.1576	-0.0068	0.4064	-0.0411	-0.0039	0.0142	0.0961	-0.3456
37	0.0	-7.44	0.4668	-0.0014	0.1659	-0.0030	0.3555	-0.0054	-0.0024	0.0094	-0.4444	1.7406
38	-0.02	-8.23	0.5005	-0.0011	0.1912	-0.0023	0.3820	-0.0147	-0.0032	0.0061	0.2210	-0.4151
39	0.0	-9.03	0.5656	0.0	0.2121	0.0	0.3749	-0.0297	-0.0039	0.0104	0.1330	-0.3503
40	0.0	-9.87	0.6185	0.0002	0.2268	0.0003	0.3667	0.0079	-0.0030	-0.0003	-0.3860	-0.0339
41	0.0	-10.61	0.6269	0.0014	0.2474	0.0022	0.3954	-0.0184	-0.0032	0.0066	0.1766	-0.3570
42	-0.02	-11.30	0.7009	0.0016	0.2586	0.0074	0.3690	0.0070	-0.0032	0.0036	-0.4642	0.5189
43	0.0	-12.13	0.7487	0.0023	0.2708	0.0031	0.3617	-0.0188	-0.0019	0.0066	0.1010	-0.3530
44	0.0	-12.87	0.7708	0.0038	0.2899	0.0050	0.3762	-0.0358	-0.0029	0.0061	0.0824	-0.1696
45	-0.01	-13.68	0.7933	0.0040	0.3070	0.0050	0.3870	-0.0248	-0.0019	0.0029	0.0766	-0.1184
46	-0.01	-14.50	0.8667	0.0047	0.3104	0.0054	0.3581	-0.0149	-0.0029	0.0061	0.1946	-0.4118

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 172 1.05 1.7				0.0	BZMOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.03	-15.33	0.8907	0.0058	0.3238	0.0065	0.3635	-0.0173	-0.0019	0.0008	0.1098	-0.0483
48	-0.01	-16.09	0.9413	0.0064	0.3304	0.0068	0.3510	0.0039	-0.0022	0.0009	-0.5768	0.2307
49	-0.02	-16.98	0.9539	0.0056	0.3460	0.0059	0.3627	-0.0277	-0.0024	0.0014	0.0866	-0.0495
50	0.0	-17.78	0.9930	0.0057	0.3544	0.0058	0.3569	-0.0423	-0.0022	0.0031	0.0520	-0.0734
51	0.0	-18.68	1.0473	0.0050	0.3592	0.0048	0.3430	-0.0459	-0.0023	0.0035	0.0501	-0.0764
52	-0.02	-19.46	1.0514	0.0053	0.3661	0.0050	0.3482	-0.0520	-0.0013	-0.0008	0.0260	0.0159
53	-0.03	-20.29	1.1167	0.0052	0.3826	0.0047	0.3426	-0.0472	-0.0017	0.0074	0.0360	-0.1562
54	-0.03	-20.73	1.0599	0.0048	0.3866	0.0045	0.3647	-0.0555	-0.0023	0.0002	0.0423	-0.0037

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	173	1.05 1.7	0.0	82W0F12	0.0	0	0	0	0	FIXED
PUNT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	3.06	19.50	0.2701	0.3248	-3.9259	7.9829	-0.1110	0.1795	1.2027	
2	3.06	19.29	0.3062	0.1893	-3.9610	7.9121	-0.1139	0.1781	0.6183	
3	3.05	18.57	0.1902	0.5167	-3.9361	7.9192	-0.0810	0.1804	2.7107	
4	3.08	17.75	0.3057	0.1520	-3.6012	7.4824	-0.1160	0.2202	0.4973	
5	3.04	16.93	0.2480	0.2988	-3.6165	7.5588	-0.0840	0.1896	1.2048	
6	3.07	16.13	0.2944	0.0698	-3.2915	7.1667	-0.0690	0.2185	0.2372	
7	3.07	15.36	0.3326	-0.0696	-3.2727	7.1584	-0.0560	0.2073	-0.2094	
8	3.06	14.60	0.3071	-0.0939	-3.2214	7.0096	-0.0530	0.1971	-0.3059	
9	3.02	13.87	0.3431	-0.2023	-2.8251	6.5188	-0.0310	0.2234	-0.5697	
10	3.01	13.05	0.3184	-0.2287	-2.8051	6.3419	-0.0160	0.2081	-0.7185	
11	3.03	12.36	0.3852	-0.4264	-2.4366	5.8939	-0.0010	0.2344	-1.1067	
12	3.03	11.54	0.3884	-0.5238	-2.3540	5.6083	0.0080	0.2245	-1.3485	
13	3.03	10.81	0.4097	-0.6186	-2.0520	5.1225	0.0140	0.2479	-1.5098	
14	3.00	9.97	0.4008	-0.5852	-2.0640	4.9464	0.0260	0.2390	-1.4599	
15	3.01	9.18	0.4523	-0.7923	-1.8574	4.5420	0.0240	0.2382	-1.7515	
16	3.01	8.33	0.4253	-0.7645	-1.6584	4.2105	0.0240	0.2499	-1.7973	
17	2.99	7.57	0.4599	-0.9069	-1.5936	3.9008	0.0220	0.2503	-1.9717	
18	3.00	6.79	0.4712	-0.9297	-1.4564	3.6148	0.0220	0.2498	-1.9729	
19	2.98	6.05	0.4518	-0.9485	-1.0946	3.0392	0.0190	0.2609	-2.1878	
20	2.99	5.17	0.4763	-1.0868	-1.1417	2.8161	0.0190	0.2508	-2.2816	
21	2.99	4.39	0.5096	-1.1664	-0.9349	2.3997	0.0190	0.2535	-2.2888	
22	3.00	3.56	0.5157	-1.2110	-0.7264	1.9058	0.0170	0.2453	-2.3480	
23	2.99	2.84	0.5371	-1.2409	-0.5413	1.4848	0.0130	0.2534	-2.3103	
24	2.99	2.07	0.5329	-1.2970	-0.4831	1.2313	0.0120	0.2536	-2.4338	
25	2.99	1.31	0.5538	-1.3113	-0.4157	0.9680	0.0110	0.2645	-2.3677	
26	2.99	0.54	0.5360	-1.3074	-0.2195	0.5762	0.0140	0.2614	-2.4390	
27	2.97	-0.18	0.5493	-1.3130	-0.0588	0.2183	0.0140	0.2640	-2.3902	
28	3.01	-0.99	0.5422	-1.3260	0.1204	-0.0895	0.0110	0.2729	-2.4455	
29	2.99	-1.76	0.5217	-1.2934	0.1672	-0.3390	0.0150	0.2764	-2.4790	
30	3.00	-2.59	0.5440	-1.2966	0.3680	-0.7531	0.0130	0.2763	-2.3833	
31	2.99	-3.38	0.5262	-1.2727	0.4150	-1.0310	0.0190	0.2809	-2.4184	
32	3.00	-4.22	0.5144	-1.1911	0.5886	-1.4480	0.0160	0.2770	-2.3155	
33	2.99	-5.00	0.5318	-1.2375	0.6907	-1.7784	0.0090	0.2853	-2.3269	
34	2.99	-5.77	0.5011	-1.1555	0.9414	-2.2648	0.0130	0.2886	-2.3058	
35	2.98	-6.51	0.5096	-1.1274	0.9706	-2.4519	0.0140	0.2810	-2.2122	
36	3.03	-7.37	0.4685	-0.9959	1.1814	-2.9326	0.0090	0.2835	-2.1256	
37	3.02	-8.10	0.4870	-1.0178	1.3224	-3.3192	0.0080	0.2897	-2.0878	
38	3.01	-8.92	0.4478	-0.9029	1.4955	-3.6265	0.0070	0.2978	-2.0162	
39	3.01	-9.68	0.4542	-0.8389	1.6059	-3.9930	0.0050	0.2978	-1.8468	
40	3.00	-10.51	0.4396	-0.8445	1.8134	-4.3545	0.0030	0.2869	-1.9208	
41	3.03	-11.23	0.4403	-0.7845	1.9279	-4.7389	-0.0010	0.2908	-1.7815	
42	3.01	-12.02	0.3907	-0.6320	2.1672	-5.1528	0.0040	0.2791	-1.6175	
43	3.01	-12.77	0.3814	-0.5989	2.2838	-5.3880	0.0070	0.2821	-1.5704	
44	3.04	-13.48	0.3607	-0.4919	2.5387	-5.8578	0.0040	0.2668	-1.3640	
45	3.04	-14.38	0.3540	-0.4925	2.6479	-6.0517	0.0190	0.2682	-1.3915	
46	3.04	-15.17	0.3145	-0.2933	2.8869	-6.5074	0.0260	0.2690	-0.9390	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
9 173 1.05 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	3.05	-15.96	0.3210	-0.2344	3.1048	-6.8614	0.0470	0.2416	-0.7302
48	3.05	-16.82	0.3302	-0.1893	3.2383	-7.1382	0.0670	0.2398	-0.5732
49	3.04	-17.62	0.3561	-0.2095	3.3814	-7.3076	0.0870	0.2259	-0.5884
50	3.05	-18.46	0.2651	-0.0791	3.6233	-7.7063	0.0660	0.2136	-0.2985
51	3.06	-19.36	0.2896	-0.0504	3.7369	-7.8503	0.1040	0.2247	-0.1742

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	173	1.05	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	3.06	19.50	-1.0335	0.0098	-0.3195	-0.0045	0.3091	-0.2199	0.0360	-0.1380	-0.1639	0.6279
2	3.06	19.29	-1.0607	0.0089	-0.3219	-0.0084	0.3035	-0.2133	0.0358	-0.1318	-0.1678	0.6178
3	3.05	18.57	-0.9806	0.0088	-0.3201	-0.0090	0.3264	-0.2287	0.0358	-0.1359	-0.1565	0.5943
4	3.08	17.75	-1.0090	0.0086	-0.3089	-0.0086	0.3062	-0.2181	0.0359	-0.1340	-0.1646	0.6147
5	3.04	16.93	-1.0191	0.0069	-0.3004	-0.0068	0.2948	-0.2281	0.0354	-0.1384	-0.1552	0.6068
6	3.07	16.13	-0.9502	0.0066	-0.2953	-0.0070	0.3108	-0.2193	0.0351	-0.1398	-0.1600	0.6378
7	3.07	15.36	-0.9572	0.0063	-0.2820	-0.0066	0.2946	-0.2166	0.0352	-0.1407	-0.1625	0.6499
8	3.06	14.60	-0.9030	0.0061	-0.2838	-0.0068	0.3143	-0.2217	0.0357	-0.1474	-0.1610	0.6652
9	3.02	13.87	-0.8747	0.0072	-0.2657	-0.0082	0.3037	-0.2267	0.0356	-0.1390	-0.1570	0.6133
10	3.01	13.05	-0.8394	0.0071	-0.2547	-0.0085	0.3034	-0.2424	0.0360	-0.1495	-0.1487	0.6170
11	3.03	12.36	-0.7771	0.0080	-0.2516	-0.0104	0.3238	-0.2428	0.0360	-0.1460	-0.1484	0.6013
12	3.03	11.54	-0.7117	0.0086	-0.2423	-0.0121	0.3405	-0.2406	0.0359	-0.1469	-0.1494	0.6109
13	3.03	10.81	-0.7133	0.0100	-0.2199	-0.0140	0.3083	-0.2528	0.0358	-0.1472	-0.1416	0.5824
14	3.00	9.97	-0.6322	0.0097	-0.2208	-0.0154	0.3492	-0.2681	0.0356	-0.1509	-0.1329	0.5630
15	3.01	9.18	-0.6091	0.0107	-0.2081	-0.0176	0.3416	-0.2439	0.0356	-0.1507	-0.1459	0.6182
16	3.01	8.33	-0.5728	0.0105	-0.2050	-0.0183	0.3491	-0.2722	0.0358	-0.1542	-0.1317	0.5665
17	2.99	7.57	-0.5501	0.0110	-0.1822	-0.0201	0.3312	-0.2752	0.0355	-0.1522	-0.1289	0.5530
18	3.00	6.79	-0.4980	0.0103	-0.1762	-0.0207	0.3539	-0.2906	0.0357	-0.1543	-0.1228	0.5310
19	2.98	6.05	-0.4236	0.0092	-0.1626	-0.0218	0.3837	-0.2675	0.0355	-0.1576	-0.1327	0.5893
20	2.99	5.17	-0.3933	0.0093	-0.1359	-0.0236	0.3556	-0.2643	0.0353	-0.1582	-0.1337	0.5988
21	2.99	4.39	-0.3338	0.0087	-0.1228	-0.0261	0.3680	-0.2900	0.0349	-0.1568	-0.1205	0.5407
22	3.00	3.56	-0.2346	0.0084	-0.1087	-0.0358	0.4632	-0.2673	0.0342	-0.1566	-0.1279	0.5861
23	2.99	2.84	-0.1765	0.0077	-0.0966	-0.0439	0.5474	-0.2731	0.0344	-0.1605	-0.1259	0.5877
24	2.99	2.07	-0.1823	0.0075	-0.0627	-0.0411	0.3442	-0.2607	0.0342	-0.1598	-0.1314	0.6132
25	2.99	1.31	-0.1195	0.0052	-0.0555	-0.0435	0.4646	-0.2876	0.0342	-0.1609	-0.1190	0.5595
26	2.99	0.54	-0.0592	0.0034	-0.0299	-0.0583	0.5055	-0.2863	0.0341	-0.1656	-0.1190	0.5783
27	2.97	-0.18	-0.0426	0.0011	-0.0115	-0.0258	0.2698	-0.3200	0.0339	-0.1668	-0.1060	0.5213
28	3.01	-0.99	0.0518	-0.0004	-0.0035	-0.0087	-0.0683	-0.3146	0.0341	-0.1633	-0.1083	0.5191
29	2.99	-1.76	0.0615	-0.0026	0.0194	-0.0423	0.3153	-0.3223	0.0341	-0.1712	-0.1059	0.5311
30	3.00	-2.59	0.1330	-0.0042	0.0353	-0.0316	0.2655	-0.3104	0.0335	-0.1700	-0.1079	0.5477
31	2.99	-3.38	0.1542	-0.0061	0.0560	-0.0399	0.3630	-0.3287	0.0334	-0.1764	-0.1016	0.5367
32	3.00	-4.22	0.2383	-0.0084	0.0764	-0.0355	0.3206	-0.3407	0.0328	-0.1804	-0.0964	0.5295
33	2.99	-5.00	0.2567	-0.0095	0.0925	-0.0372	0.3605	-0.3420	0.0322	-0.1786	-0.0943	0.5220
34	2.99	-5.77	0.3401	-0.0112	0.1103	-0.0331	0.3244	-0.3394	0.0317	-0.1840	-0.0935	0.5421
35	2.98	-6.51	0.3539	-0.0119	0.1270	-0.0336	0.3589	-0.3579	0.0307	-0.1885	-0.0859	0.5265
36	3.03	-7.37	0.4375	-0.0130	0.1385	-0.0297	0.3165	-0.3832	0.0295	-0.1875	-0.0769	0.4892
37	3.02	-8.10	0.4585	-0.0134	0.1564	-0.0293	0.3411	-0.3796	0.0286	-0.1918	-0.0753	0.5052
38	3.01	-8.92	0.5154	-0.0147	0.1699	-0.0286	0.3297	-0.3837	0.0277	-0.1951	-0.0723	0.5083
39	3.01	-9.68	0.5666	-0.0152	0.1892	-0.0269	0.3339	-0.3996	0.0265	-0.1992	-0.0663	0.4986
40	3.00	-10.51	0.6087	-0.0165	0.1951	-0.0271	0.3206	-0.3968	0.0252	-0.2037	-0.0635	0.5134
41	3.03	-11.23	0.6103	-0.0162	0.2188	-0.0266	0.3584	-0.4383	0.0241	-0.2004	-0.0551	0.4573
42	3.01	-12.02	0.6803	-0.0155	0.2250	-0.0228	0.3507	-0.4755	0.0229	-0.2038	-0.0481	0.4287
43	3.01	-12.77	0.6860	-0.0155	0.2391	-0.0226	0.3485	-0.4641	0.0222	-0.2121	-0.0479	0.4571
44	3.04	-13.48	0.7719	-0.0156	0.2431	-0.0202	0.3150	-0.4806	0.0217	-0.2168	-0.0452	0.4512
45	3.04	-14.38	0.7937	-0.0148	0.2520	-0.0186	0.3175	-0.5229	0.0216	-0.2255	-0.0413	0.4313
46	3.04	-15.17	0.8150	-0.0151	0.2717	-0.0185	0.3333	-0.5312	0.0208	-0.2385	-0.0392	0.4490

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH		RX10-6		PH1	CNF1	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			173		1.05 1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CH1	XCPF1	YCPF1	CNF2	CH2	CH2	XCPF2	YCPF2		
47	3.05	-15.96	0.9181	-0.0141	0.2708	-0.0154	0.2950	-0.5573	0.0209	-0.2478	-0.0376	0.4446		
48	3.05	-16.82	0.9511	-0.0140	0.2811	-0.0148	0.2956	-0.5927	0.0220	-0.2674	-0.0372	0.4511		
49	3.04	-17.62	0.9484	-0.0144	0.2990	-0.0152	0.3153	-0.6068	0.0226	-0.2740	-0.0373	0.4515		
50	3.05	-18.46	1.0021	-0.0161	0.2990	-0.0161	0.2984	-0.5431	0.0207	-0.2765	-0.0381	0.5090		
51	3.06	-19.36	1.0563	-0.0164	0.3075	-0.0155	0.2911	-0.6754	0.0218	-0.2788	-0.0323	0.4129		

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
173 1.05 1.7			0.0	B2WOF12	0.0	0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XLPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	3.06	19.50	-1.1137	0.0007	-0.4314	-0.0006	0.3873	-0.2124	-0.0310	-0.0482	0.1462	0.2268
2	3.06	19.29	-1.1141	0.0007	-0.4314	-0.0006	0.3872	-0.2248	-0.0293	-0.0425	0.1303	0.1891
3	3.05	18.57	-1.0718	0.0006	-0.4332	-0.0006	0.4042	-0.2129	-0.0369	-0.0418	0.1733	0.1965
4	3.08	17.75	-1.0726	0.0030	-0.4198	-0.0028	0.3714	-0.2029	-0.0310	-0.0449	0.1528	0.2213
5	3.04	16.93	-1.0621	0.0034	-0.4165	-0.0032	0.3921	-0.2015	-0.0358	-0.0332	0.1779	0.1650
6	3.07	16.13	-0.9812	0.0049	-0.4223	-0.0050	0.4278	-0.1762	-0.0333	-0.0192	0.2230	0.1090
7	3.07	15.36	-0.9704	0.0068	-0.4094	-0.0071	0.4219	-0.1909	-0.0334	-0.0033	0.2066	0.0173
8	3.06	14.60	-0.9411	0.0067	-0.3985	-0.0072	0.4234	-0.0913	-0.0398	-0.0131	0.4364	0.1437
9	3.02	13.87	-0.8825	0.0060	-0.3915	-0.0068	0.4436	-0.0844	-0.0421	0.0056	0.4987	-0.0661
10	3.01	13.05	-0.8339	0.0050	-0.3791	-0.0061	0.4545	-0.0737	-0.0410	0.0141	0.5569	-0.1919
11	3.03	12.36	-0.7910	0.0037	-0.3636	-0.0047	0.4597	-0.0222	-0.0425	0.0349	1.9141	-1.5722
12	3.03	11.54	-0.7869	0.0010	-0.3419	-0.0013	0.4345	-0.0403	-0.0426	0.0523	1.0569	-1.2971
13	3.03	10.81	-0.7025	0.0009	-0.3273	-0.0013	0.4659	0.0006	-0.0404	0.0547	-67.4046	91.1666
14	3.00	9.97	-0.6620	-0.0006	-0.3105	0.0010	0.4696	0.0303	-0.0365	0.0571	-1.2044	1.8844
15	3.01	9.18	-0.5883	-0.0006	-0.2984	0.0010	0.5072	0.0890	-0.0344	0.0583	-0.3864	0.6557
16	3.01	8.33	-0.5323	-0.0028	-0.2793	0.0054	0.5246	0.1003	-0.0281	0.0624	-0.2801	0.6223
17	2.99	7.57	-0.5206	-0.0034	-0.2517	0.0066	0.4834	0.0894	-0.0242	0.0731	-0.2706	0.8176
18	3.00	6.79	-0.4347	-0.0041	-0.2361	0.0095	0.5432	0.1143	-0.0213	0.0720	-0.1863	0.6298
19	2.98	6.05	-0.3684	-0.0041	-0.2192	0.0113	0.5951	0.1182	-0.0186	0.0797	-0.1573	0.6742
20	2.99	5.17	-0.3214	-0.0039	-0.1935	0.0123	0.6020	0.1273	-0.0147	0.0808	-0.1155	0.6349
21	2.99	4.39	-0.2494	-0.0033	-0.1701	0.0134	0.6821	0.1714	-0.0123	0.0731	-0.0720	0.4266
22	3.00	3.56	-0.2006	-0.0035	-0.1437	0.0174	0.7166	0.1426	-0.0104	0.0828	-0.0733	0.5808
23	2.99	2.84	-0.1809	-0.0029	-0.1128	0.0163	0.6234	0.1604	-0.0079	0.0811	-0.0492	0.5059
24	2.99	2.07	-0.0952	-0.0034	-0.0933	0.0362	0.9803	0.1732	-0.0065	0.0830	-0.0378	0.4793
25	2.99	1.31	-0.0033	-0.0032	-0.0657	0.0513	1.0378	0.1671	-0.0052	0.0944	-0.0311	0.5648
26	2.99	0.54	-0.0421	-0.0041	-0.0365	0.0974	0.8677	0.1753	-0.0050	0.0884	-0.0288	0.5044
27	2.97	-0.18	0.0315	-0.0047	-0.0199	-0.1508	-0.6319	0.2027	-0.0052	0.0816	-0.0259	0.4028
28	3.01	-0.99	0.0800	-0.0050	0.0001	-0.0631	0.0007	0.2207	-0.0037	0.0868	-0.0170	0.3935
29	2.99	-1.76	0.1086	-0.0045	0.0215	-0.0414	0.2015	0.1929	-0.0039	0.0899	-0.0205	0.4659
30	3.00	-2.59	0.1576	-0.0041	0.0453	-0.0260	0.2875	0.2010	-0.0024	0.0910	-0.0119	0.4526
31	2.99	-3.38	0.2335	-0.0043	0.0660	-0.0184	0.2827	0.1912	-0.0034	0.0954	-0.0178	0.4990
32	3.00	-4.22	0.2750	-0.0031	0.0978	-0.0113	0.3558	0.1918	-0.0038	0.0893	-0.0198	0.4656
33	2.99	-5.00	0.3377	-0.0033	0.1179	-0.0099	0.3492	0.1972	-0.0023	0.0965	-0.0119	0.4914
34	2.99	-5.77	0.3670	-0.0022	0.1414	-0.0060	0.3892	0.2039	-0.0028	0.0867	-0.0140	0.4754
35	2.98	-6.51	0.4163	-0.0013	0.1664	-0.0032	0.4009	0.1962	-0.0023	0.0945	-0.0119	0.4770
36	3.03	-7.37	0.4643	0.0012	0.1909	0.0026	0.4112	0.1922	-0.0013	0.0891	-0.0068	0.4638
37	3.02	-8.10	0.5460	0.0016	0.2053	0.0030	0.3761	0.2099	-0.0013	0.0882	-0.0064	0.4204
38	3.01	-8.92	0.6183	0.0021	0.2214	0.0034	0.3501	0.1771	-0.0013	0.0904	-0.0073	0.5105
39	3.01	-9.68	0.6348	0.0029	0.2563	0.0046	0.4038	0.2110	-0.0012	0.0846	-0.0057	0.4010
40	3.00	-10.51	0.6924	0.0029	0.2678	0.0043	0.3868	0.2011	-0.0013	0.0698	-0.0065	0.4466
41	3.03	-11.23	0.7517	0.0028	0.2890	0.0038	0.3844	0.2001	-0.0016	0.0878	-0.0080	0.4387
42	3.01	-12.02	0.8226	0.0028	0.3002	0.0036	0.3649	0.2002	-0.0015	0.0810	-0.0077	0.4046
43	3.01	-12.77	0.8519	0.0019	0.3167	0.0022	0.3717	0.2209	-0.0018	0.0837	-0.0081	0.3789
44	3.04	-13.48	0.8958	0.0016	0.3396	0.0018	0.3791	0.1816	-0.0029	0.0938	-0.0160	0.5166
45	3.04	-14.38	0.9584	0.0013	0.3418	0.0014	0.3566	0.2055	-0.0024	0.0910	-0.0117	0.4427
46	3.04	-15.17	1.0023	0.0010	0.3646	0.0010	0.3637	0.1753	-0.0016	0.0889	-0.0091	0.5072

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 173 1.05 1.7 0.0 82WOF12 0.0 0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.05	-15.96	1.0734	0.0014	0.3712	0.0013	0.3458	0.2298	-0.0032	0.0862	-0.0139	0.3750
48	3.05	-16.82	1.0481	0.0020	0.3915	0.0019	0.3739	0.1829	-0.0031	0.0944	-0.0169	0.5164
49	3.04	-17.62	1.0906	0.0040	0.3563	0.0037	0.3634	0.2359	-0.0031	0.0946	-0.0134	0.4010
50	3.05	-18.46	1.1501	0.0081	0.3911	0.0070	0.3393	0.2180	-0.0023	0.0933	-0.0108	0.4282
51	3.06	-19.36	1.1693	0.0080	0.4060	0.0068	0.3472	0.2112	-0.0013	0.0916	-0.0064	0.4336

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	174	1.05	1.7	0.0	BZWO12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	6.04	19.50	0.7839	-0.5345	-3.9842	7.7516	-0.1520	0.1852	-0.6819	
2	6.11	19.37	0.8016	-0.5683	-3.9235	7.6006	-0.1460	0.1957	-0.7090	
3	6.10	18.57	0.8150	-0.6960	-3.8865	7.6088	-0.1520	0.1856	-0.8541	
4	6.07	17.76	0.7495	-0.5914	-3.8039	7.4212	-0.1240	0.1992	-0.7890	
5	6.09	16.93	0.8521	-0.9290	-3.6248	7.3445	-0.1180	0.1825	-1.0902	
6	6.06	16.19	0.8680	-1.0782	-3.3886	7.2007	-0.1190	0.2094	-1.2422	
7	6.05	15.40	0.8534	-1.1567	-3.2784	6.8964	-0.0800	0.1667	-1.3555	
8	6.05	14.67	0.9109	-1.2982	-3.1491	6.7864	-0.0660	0.1981	-1.4252	
9	6.05	13.90	0.9150	-1.4929	-2.7528	6.3047	-0.0420	0.2199	-1.6317	
10	6.05	13.10	0.9324	-1.5573	-2.7567	6.1441	-0.0320	0.2006	-1.6702	
11	6.04	12.40	0.9477	-1.6717	-2.5427	5.7844	-0.0010	0.2080	-1.7640	
12	6.02	11.65	0.9233	-1.6395	-2.4122	5.5638	-0.0070	0.2160	-1.7758	
13	6.02	10.82	0.9449	-1.7218	-2.2709	5.1230	0.0110	0.2211	-1.8222	
14	6.03	10.08	0.9740	-1.8755	-2.0874	4.8271	0.0130	0.2236	-1.9256	
15	6.02	9.22	0.9961	-2.0894	-1.8695	4.4350	0.0140	0.2250	-2.0976	
16	6.03	8.47	1.0104	-2.1470	-1.6973	4.0870	0.0120	0.2410	-2.1241	
17	6.02	7.67	0.9778	-2.1428	-1.5700	3.7738	0.0230	0.2412	-2.1915	
18	6.01	6.92	1.0267	-2.2862	-1.3436	3.3219	0.0210	0.2422	-2.2268	
19	6.02	6.07	1.0586	-2.4279	-1.2198	2.9616	0.0180	0.2410	-2.2935	
20	5.99	5.28	1.0593	-2.4368	-1.1157	2.6848	0.0210	0.2395	-2.3005	
21	5.98	4.44	1.0670	-2.5246	-0.8850	2.1769	0.0150	0.2459	-2.3662	
22	5.98	3.73	1.0841	-2.6245	-0.7823	1.8491	0.0130	0.2434	-2.4210	
23	6.00	2.93	1.0579	-2.6179	-0.5957	1.4665	0.0100	0.2442	-2.4747	
24	5.97	2.17	1.0741	-2.6705	-0.5084	1.1967	0.0130	0.2542	-2.4864	
25	5.97	1.41	1.1030	-2.7150	-0.3805	0.8646	0.0110	0.2540	-2.4652	
26	5.99	0.68	1.1037	-2.7450	-0.2258	0.5630	0.0140	0.2539	-2.4872	
27	5.97	-0.09	1.0889	-2.7352	-0.1381	0.3543	0.0110	0.2556	-2.5120	
28	5.97	-0.84	1.1314	-2.8077	-0.0043	0.0160	0.0110	0.2587	-2.4817	
29	5.98	-1.66	1.0878	-2.6857	0.0980	-0.2182	0.0180	0.2709	-2.4690	
30	5.97	-2.44	1.0837	-2.6660	0.2190	-0.4555	0.0150	0.2706	-2.4602	
31	5.98	-3.25	1.0698	-2.6415	0.4147	-0.8946	0.0200	0.2747	-2.4693	
32	5.98	-4.05	1.0556	-2.5856	0.5755	-1.2437	0.0200	0.2697	-2.4495	
33	5.98	-4.84	1.0633	-2.5574	0.6148	-1.5257	0.0230	0.2821	-2.4053	
34	5.98	-5.59	1.0439	-2.5113	0.8259	-1.9171	0.0150	0.2841	-2.4057	
35	5.99	-6.43	1.0356	-2.4077	0.9982	-2.3263	0.0130	0.2741	-2.3250	
36	5.99	-7.19	1.0308	-2.3489	1.1284	-2.7235	0.0150	0.2784	-2.2788	
37	5.99	-8.02	1.0182	-2.2803	1.2795	-3.0222	0.0190	0.2781	-2.2396	
38	5.98	-8.80	1.0339	-2.2433	1.3797	-3.3654	0.0200	0.2877	-2.2182	
39	6.03	-9.59	1.0241	-2.1666	1.5673	-3.9100	0.0290	0.2737	-2.1157	
40	5.98	-10.35	0.9907	-2.0718	1.7961	-4.2143	0.0310	0.2765	-2.0914	
41	6.03	-11.11	0.9878	-1.9788	1.9638	-4.5911	0.0270	0.2631	-2.0033	
42	5.99	-11.87	0.9614	-1.9288	2.1251	-4.9839	0.0320	0.2632	-2.0063	
43	6.02	-12.64	0.9444	-1.7981	2.2772	-5.3358	0.0380	0.2543	-1.9040	
44	6.02	-13.37	0.9439	-1.7784	2.4866	-5.6539	0.0340	0.2388	-1.8841	
45	6.02	-14.24	0.8801	-1.5841	2.6987	-6.0819	0.0390	0.2432	-1.7999	
46	6.02	-15.07	0.8998	-1.5607	2.8702	-6.4650	0.0280	0.2251	-1.7345	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 174 1.05 1.7 0.0 B2WOF12 0.0 0 0 0 0 0 FIXED										
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	6.03	-15.83	0.8292	-1.2639	3.0855	-6.7974	0.0460	0.2522	-1.5242	
48	6.04	-16.67	0.8299	-1.2118	3.1462	-6.9483	0.0690	0.2659	-1.4602	
49	6.05	-17.50	0.8069	-1.0287	3.3903	-7.2520	0.0710	0.2552	-1.2748	
50	6.05	-18.39	0.7253	-0.7995	3.5407	-7.4817	0.0880	0.2632	-1.1022	
51	6.09	-19.15	0.6736	-0.5061	3.7224	-7.6521	0.1070	0.2751	-0.7513	
52	6.07	-19.96	0.6866	-0.4803	3.9071	-7.8176	0.1490	0.2610	-0.6995	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH KX10-6			PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 174 1.05 1.7			0.0	B2MUF12	0.0	0	0	0	0	FIXED		
PGINT	ALPHA	BETA	CNF1	CH1	CH1	XC PF1	YC PF1	CNF2	CH2	CB2	XC PF2	YC PF2
1	6.08	19.50	-0.9128	0.0167	-0.2927	-0.0183	0.3206	0.0927	0.0381	-0.0683	0.4115	-0.7369
2	6.11	19.37	-0.9166	0.0164	-0.2910	-0.0179	0.3175	0.0921	0.0383	-0.0657	0.4158	-0.7135
3	6.10	18.57	-0.9168	0.0151	-0.2910	-0.0165	0.3174	0.0985	0.0381	-0.0650	0.3872	-0.6597
4	6.07	17.76	-0.9298	0.0151	-0.2780	-0.0163	0.2990	0.0885	0.0381	-0.0726	0.4310	-0.8205
5	6.09	16.93	-0.8768	0.0154	-0.2812	-0.0176	0.3207	0.1071	0.0377	-0.0683	0.3524	-0.6378
6	6.06	16.19	-0.8639	0.0139	-0.2749	-0.0161	0.3182	0.0881	0.0376	-0.0672	0.4273	-0.7633
7	6.05	15.40	-0.8418	0.0156	-0.2613	-0.0185	0.3104	0.0860	0.0371	-0.0694	0.4319	-0.8075
8	6.05	14.67	-0.7941	0.0162	-0.2574	-0.0204	0.3241	0.0983	0.0369	-0.0719	0.3758	-0.7319
9	6.05	13.90	-0.7500	0.0158	-0.2500	-0.0211	0.3333	0.0845	0.0372	-0.0728	0.4402	-0.8621
10	6.05	13.10	-0.7330	0.0168	-0.2368	-0.0230	0.3231	0.0754	0.0367	-0.0751	0.4873	-0.9957
11	6.04	12.40	-0.6879	0.0176	-0.2254	-0.0256	0.3277	0.0572	0.0372	-0.0803	0.6502	-1.4045
12	6.02	11.65	-0.6886	0.0174	-0.2150	-0.0253	0.3123	0.0506	0.0373	-0.0859	0.7370	-1.6984
13	6.02	10.82	-0.6425	0.0180	-0.2067	-0.0280	0.3217	0.0313	0.0376	-0.0877	1.2011	-2.8010
14	6.03	10.08	-0.6104	0.0185	-0.1978	-0.0304	0.3240	0.0294	0.0374	-0.0908	1.2736	-3.0886
15	6.02	9.22	-0.5038	0.0199	-0.1940	-0.0395	0.3850	0.0330	0.0374	-0.0897	1.1331	-2.7183
16	6.03	8.47	-0.5479	0.0192	-0.1700	-0.0351	0.3102	0.0273	0.0375	-0.0933	1.3752	-3.4177
17	6.02	7.67	-0.4673	0.0201	-0.1651	-0.0431	0.3533	0.0009	0.0374	-0.0918	41.5481	-102.0001
18	6.01	6.92	-0.4308	0.0221	-0.1497	-0.0513	0.3474	0.0261	0.0377	-0.0938	1.4442	-3.5940
19	6.02	6.07	-0.3338	0.0203	-0.1505	-0.0609	0.4509	0.0160	0.0372	-0.0954	2.3277	-5.9605
20	5.99	5.28	-0.3225	0.0205	-0.1287	-0.0637	0.3989	0.0026	0.0368	-0.0992	14.1513	-38.1668
21	5.98	4.44	-0.2470	0.0204	-0.1191	-0.0828	0.4822	-0.0038	0.0366	-0.0998	-9.6430	26.2805
22	5.98	3.73	-0.2345	0.0197	-0.0459	-0.0840	0.4091	0.0089	0.0362	-0.1037	4.0667	-11.6555
23	6.00	2.93	-0.1474	0.0181	-0.0909	-0.1231	0.6168	-0.0222	0.0361	-0.1051	-1.6281	4.7341
24	5.97	2.17	-0.1281	0.0157	-0.0707	-0.1229	0.5518	-0.0275	0.0363	-0.1113	-1.3198	4.0496
25	5.97	1.41	-0.0798	0.0123	-0.0568	-0.1547	0.7117	-0.0285	0.0358	-0.1120	-1.2577	3.9297
26	5.99	0.68	-0.0441	0.0071	-0.0340	-0.1610	0.7709	-0.0227	0.0360	-0.1155	-1.5878	5.0909
27	5.97	-0.09	-0.0348	0.0025	-0.0134	-0.0733	0.3849	-0.0443	0.0356	-0.1183	-0.8046	2.6718
28	5.97	-0.84	0.0215	-0.0004	-0.0060	-0.0209	-0.2807	-0.0450	0.0356	-0.1215	-0.7910	2.6999
29	5.98	-1.66	0.0654	-0.0053	0.0128	-0.0818	0.1956	-0.0686	0.0356	-0.1282	-0.5189	1.8697
30	5.97	-2.44	0.0714	-0.0095	0.0330	-0.1330	0.4621	-0.0761	0.0352	-0.1288	-0.4631	1.6933
31	5.98	-3.25	0.1074	-0.0130	0.0592	-0.1215	0.5511	-0.0934	0.0350	-0.1336	-0.3752	1.4306
32	5.98	-4.05	0.1913	-0.0163	0.0606	-0.0852	0.3170	-0.1091	0.0344	-0.1380	-0.3153	1.2654
33	5.98	-4.84	0.2211	-0.0178	0.0840	-0.0807	0.3798	-0.1176	0.0335	-0.1409	-0.2852	1.1980
34	5.98	-5.59	0.2553	-0.0198	0.1002	-0.0777	0.3924	-0.1249	0.0326	-0.1422	-0.2610	1.1387
35	5.99	-6.43	0.2952	-0.0213	0.1196	-0.0721	0.4050	-0.1429	0.0310	-0.1475	-0.2172	1.0323
36	5.99	-7.19	0.3140	-0.0223	0.1377	-0.0711	0.4386	-0.1484	0.0304	-0.1561	-0.2048	1.0522
37	5.99	-8.02	0.3662	-0.0219	0.1462	-0.0598	0.3993	-0.1593	0.0297	-0.1646	-0.1864	1.0332
38	5.98	-8.80	0.4204	-0.0229	0.1568	-0.0546	0.3729	-0.2029	0.0287	-0.1670	-0.1414	0.8231
39	6.03	-9.59	0.4688	-0.0222	0.1745	-0.0473	0.3722	-0.2182	0.0274	-0.1751	-0.1258	0.8025
40	5.98	-10.35	0.5057	-0.0220	0.1884	-0.0436	0.3726	-0.2433	0.0268	-0.1790	-0.1101	0.7360
41	6.03	-11.11	0.5483	-0.0221	0.2002	-0.0404	0.3651	-0.2805	0.0261	-0.1845	-0.0930	0.6575
42	5.99	-11.87	0.6292	-0.0216	0.2024	-0.0344	0.3216	-0.2721	0.0250	-0.1897	-0.0919	0.6974
43	6.02	-12.64	0.6215	-0.0214	0.2162	-0.0345	0.3479	-0.3232	0.0239	-0.1938	-0.0739	0.5995
44	6.02	-13.37	0.6730	-0.0219	0.2209	-0.0325	0.3283	-0.3226	0.0232	-0.1993	-0.0719	0.6177
45	6.02	-14.24	0.7137	-0.0216	0.2344	-0.0303	0.3285	-0.3989	0.0225	-0.2002	-0.0564	0.5019
46	6.02	-15.07	0.7297	-0.0221	0.2416	-0.0303	0.3112	-0.4277	0.0221	-0.1961	-0.0518	0.4589

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 174 1.05 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 82WUF12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	6.03	-15.83	0.7924	-0.0199	0.2463	-0.0252	0.3109	-0.5117	0.0211	-0.2085	-0.0412	0.4075
48	6.04	-16.67	0.7921	-0.0200	0.2568	-0.0252	0.3243	-0.5643	0.0206	-0.2179	-0.0366	0.3862
49	6.05	-17.50	0.7988	-0.0208	0.2710	-0.0261	0.3392	-0.5916	0.0192	-0.2153	-0.0325	0.3640
50	6.05	-18.39	0.8587	-0.0193	0.2751	-0.0225	0.3204	-0.6130	0.0189	-0.2365	-0.0308	0.3857
51	6.09	-19.15	0.8917	-0.0179	0.2787	-0.0201	0.3126	-0.6230	0.0197	-0.2541	-0.0317	0.4078
52	6.07	-19.96	0.9313	-0.0191	0.2888	-0.0205	0.3101	-0.5987	0.0213	-0.2779	-0.0356	0.4641

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		174	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	6.08	19.50	-1.1556	0.0019	-0.4459	-0.0017	0.3859	-0.1945	-0.0297	-0.0100	0.1529	0.0515
2	6.11	19.37	-1.1573	0.0031	-0.4484	-0.0027	0.3875	-0.2081	-0.0299	-0.0108	0.1437	0.0521
3	6.10	18.57	-1.1289	0.0036	-0.4454	-0.0032	0.3945	-0.1597	-0.0280	-0.0251	0.1756	0.1573
4	6.07	17.76	-1.0918	0.0047	-0.4528	-0.0043	0.4147	-0.1203	-0.0341	-0.0110	0.2838	0.0913
5	6.09	16.93	-1.1230	0.0055	-0.4390	-0.0049	0.3309	-0.1200	-0.0360	0.0033	0.3004	-0.0276
6	6.06	16.19	-1.0677	0.0055	-0.4321	-0.0052	0.4047	-0.1022	-0.0343	0.0018	0.3360	-0.0181
7	6.05	15.40	-0.9899	0.0073	-0.4329	-0.0074	0.4373	-0.0245	-0.0391	0.0296	1.3734	-1.0387
8	6.05	14.67	-0.9777	0.0078	-0.4211	-0.0080	0.4307	0.0329	-0.0392	0.0342	-1.1913	1.0384
9	6.05	13.90	-0.9746	0.0072	-0.4027	-0.0074	0.4132	0.0256	-0.0395	0.0512	-1.5427	2.0012
10	6.05	13.10	-0.9025	0.0060	-0.3927	-0.0066	0.4351	0.0531	-0.0393	0.0659	-0.7409	1.2409
11	6.04	12.40	-0.8689	0.0050	-0.3786	-0.0058	0.4357	0.0867	-0.0394	0.0869	-0.4549	1.0022
12	6.02	11.65	-0.8195	0.0039	-0.3626	-0.0048	0.4425	0.1233	-0.0377	0.0763	-0.3057	0.6187
13	6.02	10.82	-0.7426	0.0013	-0.3483	-0.0018	0.4691	0.1539	-0.0376	0.0942	-0.2443	0.6120
14	6.03	10.08	-0.7093	0.0009	-0.3251	-0.0013	0.4584	0.1433	-0.0359	0.1081	-0.2508	0.7547
15	6.02	9.22	-0.6558	-0.0016	-0.3035	-0.0025	0.4628	0.2113	-0.0331	0.1084	-0.1566	0.5131
16	6.03	8.47	-0.5984	-0.0022	-0.2863	0.0037	0.4784	0.2422	-0.0308	0.1088	-0.1328	0.4684
17	6.02	7.67	-0.5816	-0.0038	-0.2591	0.0066	0.4455	0.2560	-0.0280	0.1154	-0.1096	0.4508
18	6.01	6.92	-0.4277	-0.0045	-0.2513	0.0106	0.5075	0.2884	-0.0244	0.1242	-0.0846	0.4306
19	6.02	6.07	-0.3937	-0.0050	-0.2248	0.0128	0.5709	0.3015	-0.0226	0.1305	-0.0749	0.4327
20	5.99	5.28	-0.3352	-0.0058	-0.2001	0.0174	0.5969	0.3369	-0.0193	0.1309	-0.0574	0.3884
21	5.98	4.44	-0.2884	-0.0055	-0.1708	0.0192	0.5921	0.3351	-0.0154	0.1374	-0.0459	0.4099
22	5.98	3.73	-0.2551	-0.0052	-0.1459	0.0206	0.5719	0.3754	-0.0126	0.1399	-0.0341	0.3726
23	6.00	2.93	-0.1833	-0.0055	-0.1136	0.0300	0.6196	0.3523	-0.0116	0.1494	-0.0329	0.4240
24	5.97	2.17	-0.1495	-0.0046	-0.0901	0.0308	0.6028	0.4100	-0.0106	0.1436	-0.0258	0.3508
25	5.97	1.41	-0.0672	-0.0047	-0.0711	0.0707	1.0579	0.4082	-0.0091	0.1459	-0.0224	0.3575
26	5.99	0.68	-0.0255	-0.0048	-0.0503	0.1882	1.9724	0.3741	-0.0075	0.1628	-0.0200	0.4350
27	5.97	-0.09	0.0481	-0.0049	-0.0273	-0.1029	-0.5670	0.4084	-0.0068	0.1616	-0.0168	0.3956
28	5.97	-0.84	0.0853	-0.0047	-0.0038	-0.0557	-0.0443	0.4186	-0.0060	0.1643	-0.0144	0.3924
29	5.98	-1.66	0.0662	-0.0044	0.0272	-0.0665	0.4103	0.4260	-0.0049	0.1630	-0.0116	0.3825
30	5.97	-2.44	0.1173	-0.0032	0.0400	-0.0180	0.2255	0.4814	-0.0036	0.1585	-0.0076	0.3293
31	5.98	-3.25	0.1899	-0.0016	0.0736	-0.0084	0.1875	0.4552	-0.0036	0.1658	-0.0080	0.3642
32	5.98	-4.05	0.2468	-0.0006	0.1018	-0.0026	0.4126	0.4170	-0.0038	0.1751	-0.0091	0.4198
33	5.98	-4.84	0.2939	0.0005	0.1250	0.0019	0.4254	0.4667	-0.0038	0.1699	-0.0081	0.3641
34	5.98	-5.59	0.3123	0.0012	0.1440	0.0032	0.3867	0.4306	-0.0031	0.1740	-0.0072	0.4040
35	5.99	-6.43	0.4342	0.0022	0.1745	0.0052	0.4018	0.4294	-0.0023	0.1736	-0.0055	0.4042
36	5.99	-7.19	0.5181	0.0027	0.1883	0.0052	0.3635	0.4487	-0.0023	0.1748	-0.0051	0.3896
37	5.99	-8.02	0.5244	0.0023	0.2194	0.0044	0.4194	0.4462	-0.0023	0.1807	-0.0052	0.4049
38	5.98	-8.80	0.6369	0.0028	0.2363	0.0044	0.3710	0.4655	-0.0023	0.1805	-0.0050	0.3878
39	6.03	-9.59	0.6615	0.0017	0.2654	0.0026	0.4012	0.4474	-0.0023	0.1839	-0.0053	0.4110
40	5.98	-10.35	0.7440	0.0014	0.2833	0.0019	0.3808	0.4520	-0.0019	0.1853	-0.0043	0.4100
41	6.03	-11.11	0.7706	0.0008	0.3042	0.0011	0.4012	0.4201	-0.0023	0.1878	-0.0056	0.4470
42	5.99	-11.87	0.8305	0.0013	0.3218	0.0016	0.3875	0.4823	-0.0026	0.1760	-0.0054	0.3649
43	6.02	-12.64	0.9071	-0.0001	0.3428	-0.0002	0.3779	0.5000	-0.0024	0.1787	-0.0049	0.3574
44	6.02	-13.37	0.9859	-0.0009	0.3530	-0.0010	0.3581	0.4854	-0.0036	0.1869	-0.0075	0.3851
45	6.02	-14.24	1.0062	-0.0016	0.3781	-0.0016	0.3757	0.4809	-0.0034	0.1819	-0.0072	0.3783
46	6.02	-15.07	1.0830	-0.0001	0.3848	-0.0001	0.3553	0.5221	-0.0038	0.1859	-0.0073	0.3560

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CNF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 174 1.05 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED												
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	6.03	-15.83	1.0856	-0.0002	0.4075	-0.0002	0.3754	0.5000	-0.0033	0.1848	-0.0066	0.3696
48	6.04	-16.67	1.1386	0.0007	0.4079	0.0007	0.3582	0.4988	-0.0030	0.1843	-0.0060	0.3695
49	6.05	-17.50	1.1861	0.0033	0.4173	0.0029	0.3578	0.5086	-0.0025	0.1835	-0.0049	0.3607
50	6.05	-18.39	1.1733	0.0040	0.4318	0.0034	0.3681	0.4890	-0.0025	0.1835	-0.0051	0.3753
51	6.09	-19.15	1.2592	0.0044	0.4287	0.0035	0.3404	0.4969	-0.0023	0.1776	-0.0047	0.3574
52	6.07	-19.96	1.2961	0.0061	0.4307	0.0047	0.3323	0.4739	-0.0006	0.1871	-0.0014	0.3948

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	175	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	9.11	19.43	1.4027	-1.8748	-4.0328	7.1917	-0.1900	0.1735	-1.3366	
2	9.11	19.30	1.4212	-1.8907	-4.0312	7.2454	-0.1780	0.1650	-1.3303	
3	9.12	18.51	1.4186	-1.8541	-3.9013	7.1736	-0.1760	0.1629	-1.3105	
4	9.11	17.70	1.4305	-2.0667	-3.7935	7.1507	-0.1330	0.1581	-1.4248	
5	9.10	16.93	1.4374	-2.1254	-3.6211	6.9313	-0.1200	0.1669	-1.4583	
6	9.08	16.12	1.4434	-2.3287	-3.5533	6.8494	-0.0900	0.1649	-1.6134	
7	9.08	15.37	1.4870	-2.4378	-3.3186	6.5967	-0.0830	0.1677	-1.6394	
8	9.07	14.61	1.4996	-2.6204	-3.0670	6.3915	-0.0420	0.1660	-1.7474	
9	9.05	13.85	1.5457	-2.8324	-2.9643	6.1048	-0.0200	0.1673	-1.8328	
10	9.04	13.06	1.5477	-2.9167	-2.6974	5.7712	-0.0300	0.1950	-1.8845	
11	9.03	12.31	1.5552	-3.1231	-2.5507	5.5507	-0.0100	0.1944	-2.0082	
12	9.03	11.48	1.5565	-3.1118	-2.3333	5.2164	0.0160	0.1980	-1.9966	
13	9.02	10.74	1.5401	-3.1640	-2.1858	4.8759	0.0190	0.2042	-2.0544	
14	9.02	9.96	1.5935	-3.3607	-1.9909	4.5251	0.0310	0.2027	-2.1090	
15	9.01	9.19	1.6049	-3.4647	-1.8515	4.2008	0.0210	0.2026	-2.1588	
16	9.01	8.35	1.6235	-3.5997	-1.5981	3.6921	0.0290	0.2087	-2.2173	
17	9.00	7.55	1.6156	-3.6036	-1.5487	3.4310	0.0360	0.2046	-2.2305	
18	8.99	6.77	1.6356	-3.7606	-1.3005	3.0226	0.0270	0.2041	-2.2493	
19	8.99	6.02	1.6610	-3.9012	-1.1778	2.6608	0.0290	0.1992	-2.3487	
20	8.99	5.17	1.6751	-3.9159	-1.0260	2.2772	0.0210	0.2176	-2.3377	
21	8.98	4.38	1.6577	-3.9305	-0.8611	1.9294	0.0200	0.2207	-2.3832	
22	8.98	3.60	1.6577	-4.0435	-0.6865	1.4490	0.0100	0.2310	-2.4393	
23	8.98	2.85	1.6839	-4.0612	-0.5533	1.2066	0.0080	0.2340	-2.4118	
24	8.98	2.06	1.6517	-4.0491	-0.3992	0.8449	0.0090	0.2475	-2.4515	
25	8.98	1.32	1.6724	-4.0931	-0.3463	0.6687	0.0120	0.2630	-2.4475	
26	8.98	0.56	1.6753	-4.0632	-0.2500	0.4879	0.0180	0.2770	-2.4254	
27	8.97	-0.17	1.6522	-4.0558	-0.0961	0.2535	0.0170	0.2798	-2.4548	
28	8.97	-0.97	1.6512	-4.0454	0.0380	0.0368	0.0170	0.2819	-2.4500	
29	8.97	-1.74	1.6668	-4.0523	0.1692	-0.1749	0.0160	0.2786	-2.4312	
30	8.98	-2.58	1.6367	-3.9651	0.2186	-0.3900	0.0220	0.2679	-2.4227	
31	8.98	-3.38	1.6442	-3.9696	0.3223	-0.7221	0.0300	0.2555	-2.4144	
32	8.98	-4.17	1.6123	-3.9550	0.5574	-1.0664	0.0230	0.2611	-2.4230	
33	8.98	-4.95	1.6496	-3.9282	0.6436	-1.3240	0.0190	0.2669	-2.3813	
34	8.99	-5.69	1.6546	-3.8792	0.8161	-1.6925	0.0130	0.2610	-2.3445	
35	8.98	-6.49	1.6206	-3.8136	0.9743	-2.0559	0.0100	0.2637	-2.3532	
36	8.99	-7.29	1.6194	-3.7609	1.0831	-2.4052	0.0140	0.2685	-2.3224	
37	9.00	-8.04	1.6178	-3.6667	1.3152	-2.8372	0.0120	0.2636	-2.2665	
38	9.01	-8.89	1.6163	-3.5416	1.3810	-3.1653	0.0160	0.2614	-2.1912	
39	9.00	-9.64	1.6231	-3.5722	1.6160	-3.6362	0.0200	0.2638	-2.2008	
40	9.01	-10.44	1.5862	-3.4025	1.7847	-3.9953	0.0260	0.2663	-2.1451	
41	9.02	-11.19	1.6186	-3.3859	1.9439	-4.3891	0.0490	0.2607	-2.0919	
42	9.02	-11.89	1.6064	-3.2998	2.0881	-4.7411	0.0600	0.2517	-2.0542	
43	9.02	-12.49	1.6247	-3.2444	2.1981	-5.0481	0.0770	0.2563	-1.9970	
44	9.02	-13.28	1.6207	-3.2408	2.3893	-5.3717	0.0860	0.2345	-1.9997	
45	9.02	-14.14	1.5778	-3.0688	2.5729	-5.7097	0.0910	0.2308	-1.9450	
46	9.03	-14.97	1.5816	-2.9911	2.7469	-6.0774	0.1010	0.2390	-1.8912	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 175 1.05 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	9.04	-15.79	1.5676	-2.7916	2.9585	-6.3746	0.1200	0.2241	-1.7808
48	9.05	-16.59	1.5334	-2.6237	3.1346	-6.6731	0.1180	0.2317	-1.7110
49	9.06	-17.43	1.4887	-2.4371	3.3234	-6.9244	0.1540	0.2691	-1.6371
50	9.07	-18.27	1.4978	-2.3149	3.5199	-7.1416	0.1650	0.2648	-1.5455
51	9.08	-19.15	1.4616	-2.0982	3.6628	-7.2167	0.1890	0.2638	-1.4356

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	Rx10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	175	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CH2	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	9.11	19.43	-0.8436	0.0278	-0.2669	-0.0329	0.3164	0.3572	0.0367	-0.0046	0.1028	-0.0130
2	9.11	19.30	-0.8472	0.0275	-0.2665	-0.0325	0.3146	0.3624	0.0367	-0.0043	0.1014	-0.0119
3	9.12	18.51	-0.8275	0.0278	-0.2627	-0.0336	0.3174	0.3649	0.0367	-0.0037	0.1005	-0.0101
4	9.11	17.70	-0.8117	0.0288	-0.2567	-0.0355	0.3162	0.3666	0.0368	-0.0057	0.1003	-0.0156
5	9.10	16.93	-0.7889	0.0289	-0.2514	-0.0367	0.3186	0.3631	0.0365	-0.0075	0.1006	-0.0206
6	9.08	16.12	-0.7560	0.0298	-0.2448	-0.0395	0.3238	0.3592	0.0361	-0.0078	0.1006	-0.0216
7	9.08	15.37	-0.7326	0.0295	-0.2393	-0.0403	0.3267	0.3579	0.0361	-0.0093	0.1010	-0.0260
8	9.07	14.61	-0.6875	0.0300	-0.2263	-0.0437	0.3291	0.3442	0.0360	-0.0127	0.1047	-0.0368
9	9.05	13.85	-0.6411	0.0307	-0.2189	-0.0479	0.3415	0.3521	0.0357	-0.0124	0.1013	-0.0353
10	9.04	13.06	-0.6281	0.0299	-0.2144	-0.0477	0.3413	0.3399	0.0355	-0.0170	0.1045	-0.0500
11	9.03	12.31	-0.5786	0.0312	-0.2023	-0.0540	0.3496	0.3407	0.0356	-0.0159	0.1046	-0.0468
12	9.03	11.48	-0.5359	0.0321	-0.1926	-0.0600	0.3593	0.3225	0.0352	-0.0235	0.1092	-0.0729
13	9.02	10.74	-0.4965	0.0327	-0.1830	-0.0658	0.3687	0.3141	0.0353	-0.0279	0.1123	-0.0888
14	9.02	9.96	-0.4544	0.0334	-0.1716	-0.0735	0.3777	0.3106	0.0351	-0.0292	0.1130	-0.0939
15	9.01	9.19	-0.4110	0.0328	-0.1663	-0.0799	0.4045	0.3029	0.0352	-0.0309	0.1163	-0.1021
16	9.01	8.35	-0.3768	0.0330	-0.1504	-0.0877	0.3990	0.2914	0.0355	-0.0321	0.1218	-0.1100
17	9.00	7.55	-0.3450	0.0325	-0.1423	-0.0942	0.4123	0.2716	0.0359	-0.0406	0.1322	-0.1495
18	8.99	6.77	-0.3001	0.0327	-0.1296	-0.1089	0.4318	0.2746	0.0358	-0.0403	0.1305	-0.1466
19	8.99	6.02	-0.2618	0.0329	-0.1152	-0.1258	0.4402	0.2683	0.0357	-0.0412	0.1332	-0.1536
20	8.99	5.17	-0.2364	0.0330	-0.1069	-0.1396	0.4521	0.2604	0.0359	-0.0452	0.1378	-0.1737
21	8.98	4.38	-0.1805	0.0339	-0.0921	-0.1878	0.5105	0.2466	0.0359	-0.0483	0.1458	-0.1960
22	8.98	3.60	-0.1479	0.0331	-0.0832	-0.2238	0.5624	0.2408	0.0360	-0.0516	0.1495	-0.2141
23	8.98	2.85	-0.1024	0.0318	-0.0701	-0.3110	0.6848	0.2324	0.0360	-0.0553	0.1549	-0.2378
24	8.98	2.06	-0.0575	0.0271	-0.0564	-0.4712	0.9819	0.2193	0.0360	-0.0619	0.1644	-0.2824
25	8.98	1.32	-0.0446	0.0187	-0.0404	-0.4203	0.9050	0.2084	0.0360	-0.0663	0.1727	-0.3184
26	8.98	0.56	-0.0251	0.0088	-0.0244	-0.3505	0.9707	0.1934	0.0361	-0.0702	0.1866	-0.3633
27	8.97	-0.17	-0.0076	0.0020	-0.0135	-0.2631	1.7806	0.1679	0.0362	-0.0756	0.2156	-0.4506
28	8.97	-0.97	0.0133	-0.0036	-0.0015	-0.2744	-0.1104	0.1562	0.0359	-0.0815	0.2301	-0.5221
29	8.97	-1.74	0.0132	-0.0107	0.0129	-0.8142	0.9772	0.1402	0.0356	-0.0859	0.2542	-0.6126
30	8.98	-2.58	0.0398	-0.0188	0.0302	-0.4723	0.7578	0.1160	0.0351	-0.0944	0.3025	-0.8142
31	8.98	-3.38	0.0733	-0.0261	0.0478	-0.3567	0.6525	0.1066	0.0345	-0.0991	0.3241	-0.9294
32	8.98	-4.17	0.1015	-0.0305	0.0589	-0.3009	0.5805	0.0907	0.0343	-0.1040	0.3781	-1.1464
33	8.98	-4.95	0.1303	-0.0316	0.0699	-0.2425	0.5166	0.0786	0.0338	-0.1082	0.4299	-1.3767
34	8.99	-5.69	0.1692	-0.0320	0.0842	-0.1891	0.4975	0.0706	0.0331	-0.1130	0.4688	-1.6002
35	8.98	-6.49	0.2186	-0.0313	0.0970	-0.1434	0.4439	0.0603	0.0320	-0.1193	0.5306	-1.9786
36	8.99	-7.29	0.2577	-0.0310	0.1093	-0.1203	0.4244	0.0370	0.0310	-0.1264	0.8377	-3.4181
37	9.00	-8.04	0.2862	-0.0323	0.1217	-0.1130	0.4251	0.0198	0.0300	-0.1315	1.5174	-6.6415
38	9.01	-8.89	0.3423	-0.0326	0.1351	-0.0953	0.3945	-0.0004	0.0287	-0.1411	-71.8622	352.8330
39	9.00	-9.64	0.3781	-0.0337	0.1453	-0.0891	0.3642	-0.0241	0.0279	-0.1470	-1.1595	6.1008
40	9.01	-10.44	0.4312	-0.0337	0.1598	-0.0781	0.3705	-0.0633	0.0271	-0.1556	-0.4288	2.4580
41	9.02	-11.19	0.4802	-0.0322	0.1758	-0.0671	0.3661	-0.0873	0.0265	-0.1670	-0.3035	1.9128
42	9.02	-11.89	0.5230	-0.0322	0.1871	-0.0615	0.3577	-0.1206	0.0261	-0.1724	-0.2168	1.4294
43	9.02	-12.49	0.5592	-0.0315	0.1999	-0.0563	0.3575	-0.1481	0.0258	-0.1811	-0.1745	1.2232
44	9.02	-13.28	0.5957	-0.0306	0.2096	-0.0514	0.3518	-0.1767	0.0255	-0.1841	-0.1443	1.0423
45	9.02	-14.14	0.6362	-0.0303	0.2205	-0.0477	0.3466	-0.1975	0.0252	-0.1880	-0.1276	0.9519
46	9.03	-14.97	0.6694	-0.0310	0.2281	-0.0464	0.3417	-0.2370	0.0251	-0.1974	-0.1059	0.8332

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 175 1.05 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	9.04	-15.79	0.7025	-0.0306	0.2389	-0.0436	0.3400	-0.2879	0.0251	-0.2104	-0.0871	0.7308
48	9.05	-16.59	0.7321	-0.0301	0.2462	-0.0411	0.3364	-0.2773	0.0243	-0.2087	-0.0876	0.7525
49	9.06	-17.43	0.7771	-0.0272	0.2578	-0.0351	0.3318	-0.2542	0.0243	-0.2214	-0.0686	0.6251
50	9.07	-18.27	0.8046	-0.0268	0.2638	-0.0334	0.3279	-0.2375	0.0240	-0.2280	-0.0640	0.6068
51	9.08	-19.15	0.8426	-0.0246	0.2724	-0.0292	0.3232	-0.2490	0.0242	-0.2444	-0.0539	0.5443

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 175 1.05 1.7			0.0	B2NOF12	0.0	0	0	0	0	FIXED		
PCINT	ALPHA	BETA	CNF3	CH3	LB3	XCPE3	YCPE3	CNF4	CH4	C84	XCPE4	YCPE4
1	9.11	19.43	-1.1602	-0.0106	-0.4355	0.0092	0.3754	-0.0494	-0.0354	0.0247	0.7175	-0.5008
2	9.11	19.30	-1.1767	-0.0053	-0.4452	0.0095	0.3783	-0.0532	-0.0325	0.0226	0.6108	-0.4243
3	9.12	18.51	-1.1608	-0.0022	-0.4484	0.0019	0.3863	-0.0460	-0.0325	0.0218	0.7064	-0.4733
4	9.11	17.70	-1.1618	0.0	-0.4515	0.0	0.3886	0.0064	-0.0361	0.0404	-5.6396	6.3176
5	9.10	16.93	-1.1461	0.0013	-0.4489	-0.0011	0.3917	0.0157	-0.0361	0.0454	-2.3021	2.8937
6	9.08	16.12	-1.1075	0.0029	-0.4458	-0.0026	0.4025	0.0575	-0.0388	0.0634	-0.6747	1.1036
7	9.08	15.37	-1.0701	0.0045	-0.4376	-0.0043	0.4089	0.0870	-0.0389	0.0717	-0.4476	0.8240
8	9.07	14.61	-1.0339	0.0069	-0.4292	-0.0067	0.4151	0.1564	-0.0415	0.0908	-0.2653	0.5807
9	9.05	13.85	-0.9951	0.0069	-0.4211	-0.0069	0.4231	0.1879	-0.0422	0.1062	-0.2248	0.5653
10	9.04	13.06	-0.9491	0.0069	-0.4073	-0.0073	0.4292	0.2012	-0.0412	0.1077	-0.2047	0.5355
11	9.03	12.31	-0.9041	0.0055	-0.3506	-0.0061	0.4320	0.2359	-0.0407	0.1220	-0.1727	0.5172
12	9.03	11.48	-0.8456	0.0045	-0.3757	-0.0053	0.4442	0.2887	-0.0396	0.1329	-0.1571	0.4603
13	9.02	10.74	-0.7961	0.0025	-0.3564	-0.0032	0.4478	0.3209	-0.0377	0.1413	-0.1176	0.4404
14	9.02	9.96	-0.7374	0.0013	-0.3387	-0.0018	0.4593	0.3534	-0.0358	0.1498	-0.1014	0.4237
15	9.01	9.19	-0.6848	-0.0000	-0.3186	0.0001	0.4652	0.3767	-0.0338	0.1512	-0.0897	0.4014
16	9.01	8.35	-0.6195	-0.0028	-0.2941	0.0045	0.4748	0.4051	-0.0312	0.1621	-0.0771	0.4001
17	9.00	7.55	-0.5546	-0.0038	-0.2757	0.0068	0.4971	0.4176	-0.0280	0.1683	-0.0671	0.4029
18	8.99	6.77	-0.4870	-0.0063	-0.2495	0.0130	0.5131	0.4586	-0.0253	0.1731	-0.0551	0.3775
19	8.99	6.02	-0.4207	-0.0088	-0.2257	0.0209	0.5364	0.4805	-0.0216	0.1803	-0.0449	0.3752
20	8.99	5.17	-0.3583	-0.0083	-0.1999	0.0233	0.5578	0.4902	-0.0195	0.1856	-0.0399	0.3787
21	8.98	4.38	-0.2949	-0.0085	-0.1749	0.0288	0.5929	0.4951	-0.0158	0.1906	-0.0319	0.3849
22	8.98	3.60	-0.2235	-0.0072	-0.1450	0.0322	0.6491	0.5219	-0.0142	0.1942	-0.0272	0.3721
23	8.98	2.85	-0.1747	-0.0079	-0.1177	0.0455	0.6738	0.5273	-0.0120	0.1990	-0.0227	0.3774
24	8.98	2.06	-0.1221	-0.0070	-0.0902	0.0577	0.7386	0.5421	-0.0104	0.2032	-0.0191	0.3741
25	8.98	1.32	-0.0582	-0.0057	-0.0652	0.0688	1.1202	0.5664	-0.0096	0.2124	-0.0169	0.3737
26	8.98	0.56	-0.0154	-0.0049	-0.0448	0.0214	2.9111	0.5921	-0.0080	0.2150	-0.0135	0.3631
27	8.97	-0.17	0.0214	-0.0051	-0.0199	-0.2383	-0.9285	0.6030	-0.0066	0.2183	-0.0110	0.3621
28	8.97	-0.97	0.0801	-0.0046	0.0065	-0.0574	0.0810	0.6074	-0.0057	0.2276	-0.0095	0.3747
29	8.97	-1.74	0.1207	-0.0035	0.0294	-0.0294	0.2479	0.6412	-0.0055	0.2322	-0.0087	0.3622
30	8.98	-2.58	0.1675	-0.0026	0.0541	-0.0158	0.3231	0.6518	-0.0067	0.2329	-0.0104	0.3573
31	8.98	-3.38	0.2204	-0.0007	0.0799	-0.0034	0.3627	0.6714	-0.0069	0.2391	-0.0103	0.3561
32	8.98	-4.17	0.2830	-0.0002	0.1055	-0.0007	0.3728	0.6847	-0.0073	0.2433	-0.0107	0.3554
33	8.98	-4.95	0.3357	0.0014	0.1314	0.0042	0.3913	0.6877	-0.0070	0.2440	-0.0102	0.3549
34	8.99	-5.69	0.3982	0.0022	0.1592	0.0055	0.3997	0.6954	-0.0071	0.2468	-0.0102	0.3549
35	8.98	-6.49	0.4721	0.0031	0.1828	0.0067	0.3872	0.7019	-0.0070	0.2492	-0.0100	0.3550
36	8.99	-7.29	0.5355	0.0038	0.2076	0.0072	0.3877	0.7043	-0.0070	0.2538	-0.0100	0.3603
37	9.00	-8.04	0.5941	0.0035	0.2304	0.0060	0.3877	0.7073	-0.0068	0.2559	-0.0096	0.3618
38	9.01	-8.89	0.6599	0.0024	0.2576	0.0037	0.3907	0.7175	-0.0072	0.2586	-0.0100	0.3604
39	9.00	-9.64	0.7241	0.0017	0.2798	0.0024	0.3864	0.7374	-0.0068	0.2630	-0.0092	0.3567
40	9.01	-10.44	0.7867	-0.0000	0.3013	-0.0001	0.3830	0.7351	-0.0075	0.2630	-0.0103	0.3578
41	9.02	-11.19	0.8324	-0.0010	0.3219	-0.0011	0.3867	0.7516	-0.0076	0.2671	-0.0101	0.3557
42	9.02	-11.89	0.8939	-0.0011	0.3380	-0.0012	0.3781	0.7503	-0.0068	0.2678	-0.0090	0.3531
43	9.02	-12.49	0.9421	-0.0013	0.3558	-0.0014	0.3777	0.7749	-0.0060	0.2735	-0.0078	0.3530
44	9.02	-13.28	0.9818	-0.0008	0.3706	-0.0008	0.3775	0.7740	-0.0049	0.2773	-0.0063	0.3583
45	9.02	-14.14	1.0428	-0.0004	0.3857	-0.0004	0.3698	0.7723	-0.0041	0.2743	-0.0053	0.3552
46	9.03	-14.97	1.0896	-0.0002	0.3999	-0.0002	0.3670	0.7819	-0.0038	0.2793	-0.0049	0.3573

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 175 1.05 1.7			PHI CONF		L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
			0.0 B2WOF12		0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	9.04	-15.79	1.1246	0.0005	0.4114	0.0004	0.3658	0.7864	-0.0026	0.2748	-0.0034	0.3495
48	9.05	-16.59	1.1798	0.0038	0.4157	0.0033	0.3524	0.7859	-0.0031	0.2767	-0.0040	0.3520
49	9.06	-17.43	1.2157	0.0046	0.4252	0.0038	0.3497	0.7740	-0.0029	0.2747	-0.0038	0.3549
50	9.07	-18.27	1.2471	0.0059	0.4346	0.0048	0.3485	0.7887	-0.0016	0.2743	-0.0020	0.3478
51	9.08	-19.15	1.2845	0.0066	0.4400	0.0051	0.3426	0.7866	-0.0007	0.2744	-0.0009	0.3488

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	176	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	12.21	19.46	2.2443	-3.1460	-3.9731	6.4252	-0.1670	0.1773	-1.4018		
2	12.21	19.09	2.1909	-2.9593	-4.0528	6.3698	-0.1030	0.1660	-1.3507		
3	12.21	18.32	2.1970	-2.9478	-3.9627	6.4640	-0.1740	0.1542	-1.3417		
4	12.19	17.57	2.2059	-3.1073	-3.7693	6.4029	-0.1420	0.1664	-1.4086		
5	12.18	16.74	2.2030	-3.2252	-3.6847	6.2465	-0.1170	0.1549	-1.4640		
6	12.16	16.01	2.1813	-3.4068	-3.5470	6.2567	-0.0940	0.1461	-1.5618		
7	12.14	15.20	2.1583	-3.5106	-3.3506	6.1076	-0.0470	0.1607	-1.6265		
8	12.13	14.50	2.1706	-3.8098	-3.0717	5.8132	-0.0280	0.1655	-1.7552		
9	12.11	13.72	2.1468	-3.9074	-2.9336	5.7268	0.0020	0.1593	-1.8201		
10	12.10	12.92	2.1481	-4.0012	-2.7765	5.4479	0.0380	0.1730	-1.8627		
11	12.09	12.20	2.2309	-4.3211	-2.5505	5.0375	0.0450	0.1687	-1.9369		
12	12.07	11.39	2.1806	-4.3577	-2.4506	4.8976	0.0780	0.1883	-1.9984		
13	12.07	10.63	2.2118	-4.4983	-2.2587	4.5860	0.0320	0.1835	-2.0338		
14	12.06	9.82	2.2257	-4.6568	-1.9738	4.1262	0.0630	0.1881	-2.0923		
15	12.05	9.06	2.2490	-4.7884	-1.8404	3.8383	0.0750	0.1922	-2.1291		
16	12.05	8.22	2.2328	-4.8277	-1.7032	3.4473	0.0590	0.2002	-2.1622		
17	12.04	7.46	2.2808	-4.9899	-1.4843	3.0609	0.0740	0.2020	-2.1878		
18	12.03	6.66	2.2404	-5.0223	-1.3401	2.6841	0.0740	0.2080	-2.2417		
19	12.03	5.91	2.2674	-5.1241	-1.1705	2.3117	0.0600	0.2096	-2.2599		
20	12.02	5.05	2.2542	-5.1372	-0.9880	1.8051	0.0510	0.2278	-2.2800		
21	12.02	4.23	2.2368	-5.1433	-0.8233	1.4556	0.0460	0.2318	-2.2994		
22	12.02	3.46	2.2930	-5.2479	-0.5775	1.0125	0.0400	0.2363	-2.2867		
23	12.02	2.73	2.2952	-5.3190	-0.5139	0.8085	0.0290	0.2381	-2.3174		
24	12.02	1.92	2.2766	-5.2290	-0.3564	0.5309	0.0350	0.2445	-2.2968		
25	12.01	1.18	2.2704	-5.2743	-0.2515	0.3741	0.0280	0.2522	-2.3231		
26	12.01	0.42	2.2602	-5.2710	-0.2070	0.3618	0.0240	0.2601	-2.3321		
27	12.01	-0.30	2.2708	-5.2479	-0.0528	0.2029	0.0200	0.2615	-2.3110		
28	12.00	-1.12	2.2804	-5.3073	0.0267	0.1256	0.0130	0.2561	-2.3273		
29	12.00	-1.86	2.2457	-5.2397	0.0379	-0.0301	0.0110	0.2610	-2.3332		
30	12.01	-2.70	2.2734	-5.2635	0.1842	-0.1509	0.0220	0.2528	-2.3152		
31	12.00	-3.50	2.2454	-5.2273	0.3227	-0.4217	0.0150	0.2451	-2.3280		
32	12.00	-4.32	2.2191	-5.2125	0.4181	-0.6614	0.0060	0.2329	-2.3489		
33	12.00	-5.08	2.2158	-5.2069	0.6092	-0.9319	-0.0060	0.2417	-2.3499		
34	12.00	-5.84	2.2368	-5.1853	0.8169	-1.4586	-0.0320	0.2409	-2.3182		
35	12.02	-6.60	2.2704	-5.1223	0.9367	-1.8403	-0.0330	0.2355	-2.2501		
36	12.02	-7.44	2.2874	-5.1651	1.1371	-2.2108	-0.0390	0.2372	-2.2581		
37	12.02	-8.20	2.2473	-5.0260	1.3336	-2.5463	-0.0320	0.2297	-2.2364		
38	12.03	-9.03	2.2364	-4.9167	1.5083	-3.0805	-0.0150	0.2296	-2.1985		
39	12.03	-9.79	2.2247	-4.7774	1.6409	-3.4221	-0.0190	0.2371	-2.1474		
40	12.04	-10.60	2.2064	-4.7018	1.8714	-3.8267	-0.0230	0.2501	-2.1310		
41	12.05	-11.30	2.1949	-4.5467	1.9808	-4.1110	-0.0060	0.2547	-2.0715		
42	12.06	-12.08	2.1885	-4.3647	2.1745	-4.4591	0.0180	0.2598	-1.9944		
43	12.07	-12.86	2.2213	-4.3287	2.2643	-4.6358	0.0390	0.2633	-1.9487		
44	12.08	-13.65	2.2056	-4.1317	2.4680	-4.9630	0.0780	0.2661	-1.8733		
45	12.09	-14.46	2.2163	-4.0187	2.6461	-5.2353	0.1070	0.2655	-1.8132		
46	12.11	-14.34	2.2733	-3.9729	2.7740	-4.9417	0.1940	0.2594	-1.7474		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		176		1.05 1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP				
47	12.12	-16.14	2.2722	-3.8700	2.9910	-5.8522	0.1610	0.2470	-1.7032				
48	12.12	-16.92	2.1797	-3.5625	3.1598	-6.0575	0.1530	0.2513	-1.6344				
49	12.12	-17.76	2.1296	-3.5144	3.3748	-6.3754	0.1770	0.2413	-1.6502				
50	12.13	-18.57	2.1376	-3.3106	3.6108	-6.5370	0.1810	0.2175	-1.5487				
51	12.13	-19.43	2.1701	-3.4041	3.6834	-6.4406	0.2250	0.2303	-1.5686				
52	12.14	-20.19	2.2192	-3.3659	3.9111	-6.3794	0.2670	0.2189	-1.5167				
53	12.15	-20.24	2.2180	-3.3032	3.8047	-5.8365	0.3320	0.2308	-1.4893				

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	176	1.05	1.7	0.0	82	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2
1	12.21	19.46	-0.6945	0.0408	-0.2323	-0.0587	0.3345	0.5847	0.0343	0.0473	0.0587	0.0808
2	12.21	19.09	-0.6842	0.0408	-0.2328	-0.0596	0.3402	0.5876	0.0342	0.0462	0.0583	0.0787
3	12.21	18.32	-0.6782	0.0408	-0.2313	-0.0602	0.3410	0.5867	0.0343	0.0459	0.0584	0.0783
4	12.19	17.57	-0.6493	0.0406	-0.2224	-0.0625	0.3426	0.5892	0.0342	0.0468	0.0580	0.0794
5	12.18	16.74	-0.6321	0.0402	-0.2212	-0.0637	0.3500	0.5813	0.0341	0.0446	0.0587	0.0768
6	12.16	16.01	-0.5930	0.0398	-0.2126	-0.0672	0.3585	0.5832	0.0338	0.0442	0.0580	0.0757
7	12.14	15.20	-0.5698	0.0404	-0.2066	-0.0710	0.3625	0.5640	0.0339	0.0393	0.0601	0.0696
8	12.13	14.50	-0.5303	0.0409	-0.1976	-0.0771	0.3726	0.5547	0.0339	0.0392	0.0606	0.0701
9	12.11	13.72	-0.4942	0.0419	-0.1911	-0.0848	0.3866	0.5670	0.0339	0.0378	0.0598	0.0666
10	12.10	12.92	-0.4534	0.0412	-0.1754	-0.0908	0.3868	0.5381	0.0337	0.0324	0.0627	0.0603
11	12.09	12.20	-0.4274	0.0412	-0.1673	-0.0965	0.3915	0.5475	0.0337	0.0304	0.0615	0.0555
12	12.07	11.39	-0.3828	0.0409	-0.1507	-0.1068	0.3935	0.5336	0.0336	0.0274	0.0630	0.0514
13	12.07	10.63	-0.3947	0.0404	-0.1588	-0.1024	0.4024	0.5218	0.0339	0.0255	0.0649	0.0489
14	12.06	9.82	-0.3411	0.0394	-0.1366	-0.1156	0.4003	0.5123	0.0337	0.0205	0.0658	0.0401
15	12.05	9.06	-0.2844	0.0396	-0.1292	-0.1392	0.4541	0.5074	0.0337	0.0189	0.0664	0.0373
16	12.05	8.22	-0.2586	0.0398	-0.1213	-0.1539	0.4693	0.5001	0.0337	0.0160	0.0674	0.0319
17	12.04	7.46	-0.2000	0.0391	-0.1069	-0.1955	0.5347	0.4931	0.0337	0.0133	0.0684	0.0271
18	12.03	6.68	-0.1476	0.0386	-0.0942	-0.2618	0.6181	0.4728	0.0338	0.0084	0.0715	0.0177
19	12.03	5.91	-0.1315	0.0391	-0.0876	-0.2977	0.6663	0.4650	0.0340	0.0069	0.0731	0.0148
20	12.02	5.05	-0.0819	0.0416	-0.0752	-0.5078	0.9181	0.4435	0.0344	0.0010	0.0776	0.0023
21	12.02	4.23	-0.0390	0.0438	-0.0643	-1.1229	1.6486	0.4310	0.0347	-0.0033	0.0805	-0.0075
22	12.02	3.46	-0.0037	0.0459	-0.0484	-12.4032	13.0900	0.4217	0.0349	-0.0031	0.0828	-0.0075
23	12.02	2.73	0.0152	0.0429	-0.0427	2.8252	-2.8115	0.4040	0.0350	-0.0062	0.0866	-0.0155
24	12.02	1.92	0.0209	0.0328	-0.0271	1.5691	-1.2984	0.3809	0.0354	-0.0156	0.0930	-0.0411
25	12.01	1.18	0.0249	0.0232	-0.0210	0.9316	-0.8435	0.3635	0.0356	-0.0202	0.0979	-0.0557
26	12.01	0.42	0.0054	0.0119	-0.0186	2.2126	-3.4446	0.3468	0.0359	-0.0276	0.1036	-0.0796
27	12.01	-0.30	0.0013	0.0007	-0.0066	0.5768	-5.2052	0.3195	0.0359	-0.0345	0.1125	-0.1080
28	12.00	-1.12	-0.0108	-0.0065	-0.0030	0.6388	0.2777	0.2979	0.0358	-0.0428	0.1203	-0.1436
29	12.00	-1.86	-0.0172	-0.0168	0.0050	0.9795	-0.2889	0.2764	0.0355	-0.0514	0.1285	-0.1858
30	12.01	-2.70	-0.0084	-0.0289	0.0219	3.4458	-2.6073	0.2521	0.0352	-0.0587	0.1396	-0.2328
31	12.00	-3.50	0.0048	-0.0403	0.0340	-8.4048	7.0832	0.2371	0.0347	-0.0671	0.1463	-0.2830
32	12.00	-4.32	0.0102	-0.0432	0.0394	-4.2394	3.8626	0.2179	0.0345	-0.0736	0.1583	-0.3377
33	12.00	-5.08	0.0333	-0.0434	0.0438	-1.3031	1.3152	0.2122	0.0341	-0.0770	0.1609	-0.3628
34	12.00	-5.84	0.0642	-0.0391	0.0469	-0.6084	0.7304	0.2142	0.0336	-0.0790	0.1571	-0.3689
35	12.02	-6.60	0.0997	-0.0366	0.0626	-0.3670	0.6281	0.2097	0.0326	-0.0855	0.1554	-0.4078
36	12.02	-7.44	0.1327	-0.0363	0.0708	-0.7735	0.5137	0.2034	0.0317	-0.0909	0.1561	-0.4470
37	12.02	-8.20	0.1674	-0.0363	0.0884	-0.2171	0.5280	0.1766	0.0305	-0.0986	0.1730	-0.5586
38	12.03	-9.03	0.2490	-0.0380	0.1114	-0.1520	0.4473	0.1418	0.0289	-0.1116	0.2041	-0.7874
39	12.03	-9.79	0.2682	-0.0390	0.1181	-0.1454	0.4406	0.1222	0.0280	-0.1173	0.2295	-0.9597
40	12.04	-10.60	0.3035	-0.0398	0.1295	-0.1312	0.4268	0.1052	0.0270	-0.1231	0.2566	-1.1706
41	12.05	-11.30	0.3381	-0.0407	0.1412	-0.1203	0.4175	0.0770	0.0261	-0.1324	0.3396	-1.7200
42	12.06	-12.08	0.3795	-0.0420	0.1554	-0.1106	0.4093	0.0355	0.0252	-0.1461	0.7111	-4.1175
43	12.07	-12.86	0.4140	-0.0437	0.1652	-0.1055	0.3989	-0.0073	0.0248	-0.1542	-3.3967	21.1277
44	12.08	-13.65	0.4864	-0.0441	0.1782	-0.0906	0.3663	-0.0744	0.0248	-0.1656	-0.3333	2.2257
45	12.09	-14.46	0.5308	-0.0430	0.1929	-0.0811	0.3634	-0.1569	0.0250	-0.1778	-0.1593	1.1337
46	12.11	-15.36	0.5865	-0.0403	0.2078	-0.0687	0.3544	-0.2234	0.0255	-0.1936	-0.1143	0.8668

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	REX	10-6	PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	176	1.05	1.7		0.0	B2MOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	12.12	-16.14	0.6029	-0.0412	0.2127	-0.0684	0.3528	-0.2370	0.0255	-0.1988	-0.1076	0.8391
48	12.12	-16.92	0.6120	-0.0421	0.2149	-0.0688	0.3512	-0.2471	0.0247	-0.1993	-0.0999	0.8067
49	12.12	-17.76	0.6682	-0.0391	0.2307	-0.0586	0.3453	-0.2803	0.0255	-0.2060	-0.0911	0.7348
50	12.13	-18.57	0.7053	-0.0380	0.2361	-0.0539	0.3348	-0.2794	0.0259	-0.2050	-0.0928	0.7336
51	12.13	-19.43	0.7487	-0.0376	0.2476	-0.0503	0.3307	-0.2907	0.0250	-0.2097	-0.0861	0.7211
52	12.14	-20.19	0.7892	-0.0360	0.2571	-0.0457	0.3257	-0.3122	0.0258	-0.2170	-0.0826	0.6950
53	12.15	-20.24	0.7758	-0.0356	0.2562	-0.0459	0.3303	-0.3156	0.0268	-0.2139	-0.0850	0.6775

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		176	1.05 1.7	0.0	B2WUF12	0.0	0	0	0	0	FIXED	
PGINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	12.21	19.46	-1.1800	-0.0130	-0.4408	0.0110	0.3735	0.0760	-0.0404	0.0607	-0.5315	0.7990
2	12.21	19.09	-1.1907	-0.0105	-0.4440	0.0088	0.3729	0.0403	-0.0348	0.0431	-0.8634	1.0702
3	12.21	18.32	-1.2088	-0.0023	-0.4572	0.0019	0.3782	0.0397	-0.0322	0.0431	-0.8109	1.0864
4	12.19	17.57	-1.1957	0.0010	-0.4613	-0.0009	0.3858	0.0787	-0.0346	0.0578	-0.4396	0.7347
5	12.18	16.74	-1.1651	0.0029	-0.4600	-0.0025	0.3948	0.0876	-0.0350	0.0647	-0.3995	0.7385
6	12.16	16.01	-1.1453	0.0038	-0.4545	-0.0034	0.3969	0.1565	-0.0397	0.0889	-0.2539	0.5684
7	12.14	15.20	-1.1127	0.0036	-0.4453	-0.0033	0.4002	0.2046	-0.0431	0.1105	-0.2109	0.5400
8	12.13	14.50	-1.0800	0.0074	-0.4406	-0.0069	0.4079	0.2671	-0.0450	0.1278	-0.1684	0.4785
9	12.11	13.72	-1.0452	0.0077	-0.4323	-0.0074	0.4136	0.3167	-0.0455	0.1405	-0.1438	0.4437
10	12.10	12.92	-1.0038	0.0066	-0.4185	-0.0066	0.4169	0.3757	-0.0452	0.1578	-0.1203	0.4200
11	12.09	12.20	-0.9454	0.0053	-0.4027	-0.0056	0.4260	0.4081	-0.0439	0.1662	-0.1076	0.4072
12	12.07	11.39	-0.8914	0.0041	-0.3861	-0.0047	0.4331	0.4673	-0.0412	0.1789	-0.0881	0.3829
13	12.07	10.63	-0.8330	0.0037	-0.3699	-0.0044	0.4440	0.4533	-0.0389	0.1753	-0.0858	0.3868
14	12.06	9.82	-0.7696	0.0007	-0.3474	-0.0010	0.4514	0.5018	-0.0357	0.1887	-0.0712	0.3761
15	12.05	9.06	-0.7176	0.0003	-0.3281	-0.0004	0.4572	0.5309	-0.0330	0.1957	-0.0622	0.3686
16	12.05	8.22	-0.6398	-0.0021	-0.3073	0.0034	0.4803	0.5463	-0.0302	0.2012	-0.0553	0.3684
17	12.04	7.46	-0.5686	-0.0041	-0.2872	0.0073	0.5052	0.5828	-0.0263	0.2068	-0.0452	0.3548
18	12.03	6.68	-0.4904	-0.0058	-0.2594	0.0119	0.5289	0.6118	-0.0222	0.2138	-0.0364	0.3494
19	12.03	5.91	-0.4457	-0.0075	-0.2309	0.0168	0.5181	0.6062	-0.0199	0.2197	-0.0329	0.3624
20	12.02	5.05	-0.3657	-0.0077	-0.1597	0.0210	0.5459	0.6250	-0.0164	0.2234	-0.0262	0.3574
21	12.02	4.23	-0.2966	-0.0088	-0.1670	0.0297	0.5631	0.6405	-0.0135	0.2268	-0.0211	0.3541
22	12.02	3.46	-0.2391	-0.0085	-0.1423	0.0358	0.5954	0.6610	-0.0103	0.2307	-0.0156	0.3491
23	12.02	2.73	-0.1741	-0.0077	-0.1147	0.0445	0.6589	0.6731	-0.0089	0.2373	-0.0132	0.3525
24	12.02	1.92	-0.1127	-0.0065	-0.0854	0.0581	0.7627	0.6948	-0.0073	0.2449	-0.0106	0.3525
25	12.01	1.18	-0.0659	-0.0063	-0.0617	0.0956	0.9372	0.7236	-0.0070	0.2556	-0.0097	0.3533
26	12.01	0.42	-0.0153	-0.0054	-0.0382	0.3529	2.4966	0.7498	-0.0069	0.2623	-0.0093	0.3499
27	12.01	-0.30	0.0214	-0.0051	-0.0135	-0.2383	-0.6294	0.7758	-0.0068	0.2703	-0.0088	0.3484
28	12.00	-1.12	0.0676	-0.0041	0.0106	-0.0468	0.1209	0.8129	-0.0073	0.2759	-0.0090	0.3394
29	12.00	-1.86	0.1227	-0.0033	0.0378	-0.0269	0.3079	0.8325	-0.0047	0.2822	-0.0105	0.3390
30	12.01	-2.70	0.1687	-0.0022	0.0631	-0.0130	0.3741	0.8754	-0.0075	0.2912	-0.0086	0.3326
31	12.00	-3.50	0.2436	0.0000	0.0903	0.0002	0.3706	0.8887	-0.0096	0.2958	-0.0108	0.3329
32	12.00	-4.32	0.2998	0.0022	0.1156	0.0073	0.3856	0.8984	-0.0111	0.3009	-0.0124	0.3349
33	12.00	-5.08	0.3511	0.0026	0.1435	0.0075	0.4087	0.9119	-0.0119	0.3036	-0.0130	0.3329
34	12.00	-5.84	0.4487	0.0034	0.1776	0.0077	0.3963	0.9251	-0.0119	0.3097	-0.0129	0.3347
35	12.02	-6.60	0.4957	0.0037	0.2042	0.0076	0.4119	0.9411	-0.0123	0.3100	-0.0131	0.3294
36	12.02	-7.44	0.5722	0.0041	0.2315	0.0072	0.4045	0.9653	-0.0127	0.3156	-0.0132	0.3269
37	12.02	-8.20	0.6423	0.0037	0.2561	0.0058	0.3988	0.9721	-0.0127	0.3179	-0.0131	0.3270
38	12.03	-9.03	0.7184	0.0019	0.2817	0.0027	0.3921	0.9725	-0.0118	0.3182	-0.0121	0.3271
39	12.03	-9.79	0.7862	0.0012	0.3040	0.0015	0.3866	0.9819	-0.0122	0.3232	-0.0125	0.3291
40	12.04	-10.60	0.8443	0.0005	0.3246	0.0006	0.3845	0.9910	-0.0125	0.3268	-0.0126	0.3298
41	12.05	-11.30	0.9062	-0.0002	0.3401	-0.0002	0.3752	0.9985	-0.0119	0.3266	-0.0119	0.3271
42	12.06	-12.08	0.9651	-0.0005	0.3584	-0.0005	0.3713	1.0103	-0.0109	0.3309	-0.0108	0.3275
43	12.07	-12.86	1.0090	-0.0009	0.3770	-0.0009	0.3736	1.0277	-0.0106	0.3340	-0.0103	0.3249
44	12.08	-13.65	1.0643	-0.0013	0.3503	-0.0013	0.3668	1.0270	-0.0104	0.3356	-0.0101	0.3268
45	12.09	-14.46	1.1069	-0.0012	0.3999	-0.0011	0.3613	1.0387	-0.0100	0.3372	-0.0097	0.3246
46	12.11	-15.36	1.1388	-0.0006	0.4089	-0.0006	0.3590	1.0386	-0.0098	0.3373	-0.0095	0.3247

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART PACH RX10-6												
6 176 1.05 1.7												
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
0.0 0.240F12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	12.12	-16.14	1.1785	0.0020	0.4186	0.0017	0.3552	1.0595	-0.0097	0.3399	-0.0092	0.3209
48	12.12	-16.92	1.2280	0.0041	0.4238	0.0034	0.3451	1.0381	-0.0094	0.3378	-0.0091	0.3254
49	12.12	-17.76	1.2642	0.0056	0.4340	0.0045	0.3433	1.0353	-0.0085	0.3385	-0.0082	0.3269
50	12.13	-18.57	1.3068	0.0087	0.4383	0.0067	0.3354	1.0561	-0.0085	0.3413	-0.0081	0.3232
51	12.13	-19.43	1.2640	0.0235	0.4113	0.0183	0.3204	1.0467	-0.0078	0.3424	-0.0074	0.3271
52	12.14	-20.19	1.2653	0.0271	0.4020	0.0215	0.3177	1.0577	-0.0077	0.3459	-0.0073	0.3271
53	12.15	-20.24	1.1218	0.0265	0.3515	0.0237	0.3133	1.0508	-0.0066	0.3447	-0.0063	0.3281

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	177	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLM	CLL	CAF	XCP		
1	15.26	19.31	2.9029	-3.9291	-4.1520	5.7827	-0.1350	0.1572	-1.3535		
2	15.26	19.08	2.9285	-4.0129	-4.1931	5.7773	-0.1330	0.1425	-1.3703		
3	15.26	18.34	2.9108	-3.8602	-4.0863	5.7408	-0.1220	0.1386	-1.3261		
4	15.25	17.49	2.9217	-3.9774	-3.9532	5.7764	-0.1050	0.1376	-1.3613		
5	15.24	16.71	2.9261	-4.0546	-3.8493	5.7280	-0.0600	0.1220	-1.3856		
6	15.22	15.92	2.8688	-4.1763	-3.6954	5.6375	-0.0110	0.1336	-1.4558		
7	15.20	15.20	2.8610	-4.4174	-3.4839	5.5194	0.0240	0.1367	-1.5440		
8	15.18	14.42	2.8516	-4.6162	-3.2486	5.3419	0.0670	0.1380	-1.6168		
9	15.15	13.68	2.7679	-4.8420	-3.0047	5.4384	0.0940	0.1460	-1.7493		
10	15.12	12.87	2.7498	-5.0606	-2.7811	5.0684	0.0920	0.1493	-1.8403		
11	15.11	12.11	2.8445	-5.4331	-2.5821	4.7167	0.0930	0.1442	-1.9100		
12	15.12	11.34	2.9001	-5.3990	-2.3022	4.1580	0.0680	0.1253	-1.8616		
13	15.11	10.60	2.8856	-5.5197	-2.1758	3.9140	0.1040	0.1272	-1.9128		
14	15.10	9.73	2.9139	-5.7133	-2.0160	3.5104	0.1280	0.1161	-1.9607		
15	15.08	9.00	2.8932	-5.8423	-1.8429	3.3259	0.1360	0.1334	-2.0193		
16	15.08	8.16	2.9322	-6.0338	-1.6246	2.9143	0.1340	0.1325	-2.0578		
17	15.07	7.36	2.9261	-6.1483	-1.5429	2.5670	0.1640	0.1562	-2.1012		
18	15.06	6.55	2.9214	-6.2837	-1.3165	2.1451	0.1340	0.1693	-2.1509		
19	15.06	5.78	2.9785	-6.3996	-1.0588	1.7812	0.0970	0.1755	-2.1486		
20	15.04	4.92	2.9664	-6.4927	-0.8802	1.4172	0.0980	0.2012	-2.1887		
21	15.04	4.14	2.9582	-6.4732	-0.7270	0.9838	0.1050	0.2187	-2.1882		
22	15.04	3.34	2.9284	-6.4255	-0.6409	0.7123	0.1040	0.2269	-2.1942		
23	15.03	2.64	2.8948	-6.3684	-0.4923	0.4523	0.0980	0.2346	-2.1999		
24	15.03	1.82	2.9215	-6.3808	-0.3834	0.3046	0.0770	0.2348	-2.1841		
25	15.02	1.05	2.8933	-6.4223	-0.2727	0.3137	0.0690	0.2435	-2.2197		
26	15.02	0.30	2.8884	-6.3665	-0.1736	0.3810	0.0430	0.2473	-2.2041		
27	15.03	-0.41	2.9307	-6.4407	-0.1574	0.3043	0.0270	0.2476	-2.1977		
28	15.02	-1.23	2.8833	-6.3383	-0.0634	0.2807	0.0210	0.2523	-2.1983		
29	15.02	-2.00	2.9178	-6.4196	-0.0048	0.1697	0.0230	0.2448	-2.2001		
30	15.03	-2.84	2.8911	-6.3303	0.1628	0.0901	-0.0190	0.2447	-2.1896		
31	15.02	-3.64	2.8856	-6.4186	0.2385	-0.1489	0.0130	0.2319	-2.2243		
32	15.01	-4.46	2.8753	-6.4431	0.3741	-0.4017	-0.0260	0.2272	-2.2408		
33	15.02	-5.18	2.8690	-6.4314	0.5908	-0.7122	-0.0670	0.2309	-2.2411		
34	15.02	-5.96	2.8484	-6.3645	0.7944	-1.1232	-0.0840	0.2332	-2.2344		
35	15.03	-6.73	2.8569	-6.2214	1.0110	-1.5693	-0.1070	0.2269	-2.1777		
36	15.04	-7.58	2.8769	-6.1814	1.1794	-1.9182	-0.1240	0.2298	-2.1486		
37	15.04	-8.34	2.8830	-6.1291	1.3250	-2.2930	-0.1150	0.2250	-2.1253		
38	15.05	-9.15	2.8572	-5.9319	1.5021	-2.8578	-0.1210	0.2075	-2.0761		
39	15.05	-9.93	2.8560	-5.9022	1.6979	-3.1265	-0.1050	0.2076	-2.0666		
40	15.06	-10.73	2.8888	-5.8201	1.8584	-3.4636	-0.0490	0.2041	-2.0147		
41	15.07	-11.48	2.8555	-5.6155	2.0293	-3.8419	-0.0560	0.2136	-1.9679		
42	15.07	-12.25	2.8409	-5.5831	2.2398	-4.2396	-0.0550	0.2120	-1.9652		
43	15.09	-13.00	2.8366	-5.3571	2.4823	-4.5981	-0.0430	0.2066	-1.8885		
44	15.10	-13.81	2.8220	-5.1237	2.6412	-4.8555	-0.0330	0.2070	-1.8156		
45	15.11	-14.62	2.7849	-4.9098	2.7944	-4.9781	-0.0030	0.2182	-1.7630		
46	15.13	-15.48	2.8143	-4.5840	2.9991	-5.0676	0.0300	0.2309	-1.6288		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 177 1.05 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	15.17	-16.20	2.8850	-4.4560	3.1492	-5.1968	0.0710	0.2285	-1.5445
48	15.19	-17.06	2.8917	-4.1894	3.3660	-5.3993	0.0940	0.2310	-1.4488
49	15.19	-17.93	2.9295	-4.1193	3.5840	-5.5386	0.1300	0.2376	-1.4061
50	15.20	-18.79	2.9242	-3.9039	3.8444	-5.6331	0.1640	0.2371	-1.3350
51	15.22	-19.55	2.9428	-3.7850	4.0421	-5.5639	0.2100	0.2414	-1.2862

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CNFF	L	OEL1	OEL2	OEL3	DEL4	TRANSITION		
6	177	1.05	1.7	0.0	0.2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNFF1	CH1	CH1	XCFF1	YCFF1	CNFF2	CH2	CH2	XCFF2	YCFF2
1	15.26	19.31	-0.5315	0.0493	-0.2019	-0.0927	0.3799	0.7272	0.0325	0.0985	0.0447	0.1355
2	15.26	19.08	-0.5250	0.0491	-0.2021	-0.0935	0.3850	0.7138	0.0327	0.1012	0.0458	0.1417
3	15.26	18.34	-0.5093	0.0484	-0.1941	-0.0951	0.3811	0.7126	0.0327	0.0988	0.0459	0.1386
4	15.25	17.49	-0.4862	0.0482	-0.1921	-0.0991	0.3951	0.7188	0.0328	0.0963	0.0456	0.1340
5	15.24	16.71	-0.4513	0.0467	-0.1785	-0.1034	0.3955	0.7075	0.0327	0.0978	0.0462	0.1382
6	15.22	15.92	-0.4170	0.0444	-0.1642	-0.1064	0.3936	0.6904	0.0327	0.0972	0.0473	0.1407
7	15.20	15.20	-0.3710	0.0437	-0.1555	-0.1179	0.4192	0.6951	0.0327	0.0940	0.0470	0.1353
8	15.18	14.42	-0.3188	0.0430	-0.1434	-0.1350	0.4499	0.6847	0.0327	0.0927	0.0478	0.1353
9	15.15	13.68	-0.3152	0.0435	-0.1438	-0.1374	0.4563	0.6636	0.0327	0.0864	0.0493	0.1303
10	15.12	12.87	-0.2855	0.0455	-0.1370	-0.1593	0.4799	0.6641	0.0331	0.0848	0.0499	0.1277
11	15.11	12.11	-0.2616	0.0466	-0.1361	-0.1781	0.5205	0.6616	0.0331	0.0840	0.0501	0.1269
12	15.12	11.34	-0.2394	0.0450	-0.1284	-0.1881	0.5366	0.6561	0.0333	0.0787	0.0508	0.1200
13	15.11	10.60	-0.1789	0.0431	-0.1091	-0.2409	0.6099	0.6362	0.0338	0.0737	0.0531	0.1159
14	15.10	9.73	-0.1205	0.0402	-0.0941	-0.3340	0.7813	0.6146	0.0340	0.0733	0.0554	0.1193
15	15.08	9.00	-0.0961	0.0385	-0.0808	-0.4011	0.8410	0.6020	0.0340	0.0709	0.0565	0.1178
16	15.08	8.16	-0.0703	0.0375	-0.0716	-0.5333	1.0168	0.5881	0.0340	0.0678	0.0578	0.1153
17	15.07	7.36	-0.0026	0.0341	-0.0484	-1.1323	18.6024	0.5709	0.0338	0.0664	0.0593	0.1162
18	15.06	6.55	-0.0063	0.0371	-0.0443	-5.8958	7.0316	0.5627	0.0337	0.0621	0.0600	0.1104
19	15.06	5.78	0.0096	0.0442	-0.0487	4.6633	-5.0730	0.5603	0.0334	0.0609	0.0597	0.1087
20	15.04	4.92	0.0521	0.0462	-0.0334	0.8876	-0.6418	0.5669	0.0334	0.0552	0.0590	0.0974
21	15.04	4.14	0.1070	0.0465	-0.0155	0.4350	-0.1453	0.5574	0.0333	0.0473	0.0598	0.0848
22	15.04	3.34	0.1474	0.0415	0.0014	0.2818	0.0096	0.5234	0.0335	0.0401	0.0640	0.0767
23	15.03	2.64	0.1452	0.0354	0.0077	0.2438	0.0529	0.5134	0.0339	0.0306	0.0661	0.0596
24	15.03	1.82	0.1191	0.0272	0.0100	0.2288	0.0838	0.4898	0.0344	0.0228	0.0703	0.0466
25	15.02	1.05	0.0870	0.0180	0.0084	0.2669	0.0964	0.4799	0.0349	0.0135	0.0727	0.0282
26	15.02	0.30	0.0349	0.0054	0.0037	0.1561	0.0209	0.4516	0.0356	0.0038	0.0788	0.0084
27	15.03	-0.41	-0.0032	-0.0017	-0.0027	0.5468	0.8332	0.4383	0.0358	-0.0014	0.0818	-0.0032
28	15.02	-1.23	-0.0275	-0.0187	-0.0032	0.6799	-0.1177	0.3922	0.0357	-0.0158	0.0910	-0.0402
29	15.02	-2.00	-0.0472	-0.0300	0.0085	0.6365	-0.1795	0.3794	0.0356	-0.0227	0.0938	-0.0599
30	15.03	-2.84	-0.1201	-0.0333	-0.0071	0.2772	0.0593	0.3506	0.0356	-0.0287	0.1015	-0.0820
31	15.02	-3.64	-0.0596	-0.0495	0.0235	0.8304	-0.3950	0.3287	0.0350	-0.0415	0.1066	-0.1263
32	15.01	-4.46	-0.1018	-0.0497	0.0094	0.4886	-0.0921	0.3228	0.0348	-0.0441	0.1078	-0.1366
33	15.02	-5.18	-0.1120	-0.0492	0.0093	0.4397	-0.0829	0.3119	0.0347	-0.0478	0.1112	-0.1533
34	15.02	-5.96	-0.0738	-0.0447	0.0097	0.6063	-0.1316	0.3040	0.0342	-0.0527	0.1126	-0.1732
35	15.03	-6.73	-0.0329	-0.0365	0.0187	1.1107	-0.5695	0.3052	0.0334	-0.0574	0.1094	-0.1879
36	15.04	-7.58	-0.0086	-0.0309	0.0212	3.5582	-2.4691	0.3026	0.0323	-0.0612	0.1067	-0.2023
37	15.04	-8.34	0.0185	-0.0290	0.0242	-1.5673	1.3062	0.2946	0.0316	-0.0649	0.1072	-0.2202
38	15.05	-9.15	0.0883	-0.0339	0.0520	-0.3844	0.5892	0.2648	0.0299	-0.0785	0.1129	-0.2963
39	15.05	-9.93	0.1233	-0.0359	0.0660	-0.2911	0.5352	0.2460	0.0288	-0.0860	0.1171	-0.3497
40	15.06	-10.73	0.2051	-0.0423	0.1025	-0.2062	0.5000	0.2104	0.0272	-0.1010	0.1293	-0.4800
41	15.07	-11.48	0.2345	-0.0429	0.1100	-0.1829	0.4692	0.1943	0.0267	-0.1048	0.1374	-0.5397
42	15.07	-12.25	0.2502	-0.0441	0.1171	-0.1764	0.4683	0.1806	0.0258	-0.1132	0.1428	-0.6269
43	15.09	-13.00	0.2600	-0.0437	0.1221	-0.1680	0.4698	0.1316	0.0248	-0.1276	0.1888	-0.9700
44	15.10	-13.81	0.3125	-0.0449	0.1347	-0.1436	0.4311	0.0862	0.0243	-0.1364	0.2819	-1.5821
45	15.11	-14.62	0.3346	-0.0455	0.1414	-0.1359	0.4225	0.0313	0.0237	-0.1500	0.7587	-4.7946
46	15.15	-15.48	0.3665	-0.0461	0.1518	-0.1259	0.4142	-0.0666	0.0236	-0.1600	-0.3350	2.4023

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 177 1.05 1.7 0.0 82W01-12 0.0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	15.17	-16.28	0.4006	-0.0478	0.1629	-0.1194	0.4066	-0.1070	0.0240	-0.1734	-0.2247	1.6211
48	15.19	-17.06	0.4386	-0.0486	0.1741	-0.1108	0.3970	-0.1681	0.0245	-0.1885	-0.1457	1.1214
49	15.19	-17.93	0.4741	-0.0496	0.1810	-0.1046	0.3817	-0.2603	0.0253	-0.1931	-0.0972	0.7420
50	15.20	-18.79	0.5072	-0.0496	0.1856	-0.0979	0.3659	-0.3503	0.0250	-0.1994	-0.0694	0.5532
51	15.22	-19.55	0.5289	-0.0512	0.1947	-0.0969	0.3682	-0.3109	0.0248	-0.2226	-0.0797	0.7159

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 177 1.05 1.7			0.0	82WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	15.26	19.31	-1.2274	-0.0123	-0.4503	0.0101	0.3669	0.1720	-0.0472	0.0897	-0.2744	0.5216
2	15.26	19.08	-1.2178	-0.0127	-0.4518	0.0105	0.3710	0.1782	-0.0482	0.0947	-0.2707	0.5313
3	15.26	18.34	-1.2344	-0.0053	-0.4579	0.0043	0.3710	0.1609	-0.0429	0.0878	-0.2666	0.5458
4	15.25	17.49	-1.2286	0.0005	-0.4674	-0.0004	0.3804	0.1706	-0.0414	0.0897	-0.2426	0.5261
5	15.24	16.71	-1.2279	0.0045	-0.4709	-0.0037	0.3835	0.2123	-0.0431	0.1070	-0.2032	0.5042
6	15.22	15.92	-1.1990	0.0071	-0.4675	-0.0059	0.3899	0.2680	-0.0452	0.1246	-0.1688	0.4649
7	15.20	15.20	-1.1733	0.0091	-0.4647	-0.0078	0.3961	0.3094	-0.0469	0.1432	-0.1515	0.4628
8	15.18	14.42	-1.1360	0.0095	-0.4553	-0.0084	0.3990	0.3825	-0.0482	0.1606	-0.1260	0.4197
9	15.15	13.68	-1.0543	0.0085	-0.4448	-0.0078	0.4065	0.4620	-0.0485	0.1790	-0.1050	0.3875
10	15.12	12.87	-1.0467	0.0073	-0.4296	-0.0070	0.4104	0.4982	-0.0485	0.1871	-0.0934	0.3756
11	15.11	12.11	-0.9735	0.0057	-0.4121	-0.0059	0.4233	0.5308	-0.0428	0.1931	-0.0807	0.3637
12	15.12	11.34	-0.9111	0.0043	-0.3527	-0.0047	0.4310	0.5363	-0.0407	0.1973	-0.0760	0.3679
13	15.11	10.60	-0.8671	0.0017	-0.3755	-0.0020	0.4331	0.5829	-0.0378	0.2103	-0.0648	0.3608
14	15.10	9.73	-0.7969	-0.0008	-0.3550	0.0011	0.4455	0.6301	-0.0343	0.2213	-0.0545	0.3511
15	15.08	9.00	-0.7433	-0.0028	-0.3374	0.0038	0.4539	0.6681	-0.0306	0.2273	-0.0459	0.3402
16	15.08	8.16	-0.6617	-0.0049	-0.3162	0.0074	0.4778	0.6860	-0.0271	0.2375	-0.0396	0.3462
17	15.07	7.36	-0.5919	-0.0083	-0.2916	0.0141	0.4927	0.7458	-0.0218	0.2458	-0.0292	0.3296
18	15.06	6.55	-0.5186	-0.0092	-0.2601	0.0177	0.5015	0.7581	-0.0183	0.2506	-0.0242	0.3306
19	15.06	5.78	-0.4486	-0.0068	-0.2327	0.0153	0.5186	0.7605	-0.0169	0.2540	-0.0222	0.3340
20	15.04	4.92	-0.3812	-0.0058	-0.2056	0.0132	0.5394	0.7751	-0.0145	0.2564	-0.0187	0.3308
21	15.04	4.14	-0.3008	-0.0063	-0.1723	0.0209	0.5728	0.7880	-0.0115	0.2610	-0.0146	0.3312
22	15.04	3.34	-0.2457	-0.0062	-0.1429	0.0254	0.5819	0.8074	-0.0086	0.2720	-0.0107	0.3365
23	15.03	2.64	-0.1744	-0.0069	-0.1151	0.0398	0.6600	0.8337	-0.0073	0.2761	-0.0088	0.3312
24	15.03	1.82	-0.1150	-0.0056	-0.0876	0.0491	0.7619	0.8675	-0.0066	0.2827	-0.0076	0.3258
25	15.02	1.05	-0.0641	-0.0054	-0.0583	0.0842	0.9104	0.9035	-0.0066	0.2926	-0.0073	0.3238
26	15.02	0.30	-0.0169	-0.0052	-0.0349	0.3106	2.0669	0.9358	-0.0064	0.3021	-0.0068	0.3229
27	15.03	-0.41	0.0396	-0.0051	-0.0106	-0.1248	-0.2678	0.9616	-0.0068	0.3114	-0.0071	0.3239
28	15.02	-1.23	0.0979	-0.0048	0.0151	-0.0490	0.1545	1.0001	-0.0079	0.3185	-0.0079	0.3184
29	15.02	-2.00	0.1384	-0.0042	0.0442	-0.0307	0.3195	1.0395	-0.0086	0.3292	-0.0083	0.3167
30	15.03	-2.84	0.1989	-0.0020	0.0737	-0.0103	0.3704	1.0426	-0.0100	0.3325	-0.0096	0.3185
31	15.02	-3.64	0.2565	-0.0017	0.1015	-0.0066	0.3956	1.0957	-0.0111	0.3447	-0.0102	0.3146
32	15.01	-4.46	0.3403	0.0002	0.1300	0.0006	0.3820	1.1063	-0.0131	0.3460	-0.0118	0.3128
33	15.02	-5.18	0.4089	0.0015	0.1625	0.0037	0.3983	1.1266	-0.0141	0.3498	-0.0125	0.3105
34	15.02	-5.96	0.4871	0.0021	0.1960	0.0044	0.4024	1.1292	-0.0154	0.3551	-0.0136	0.3144
35	15.03	-6.73	0.5466	0.0036	0.2234	0.0066	0.4088	1.1327	-0.0151	0.3546	-0.0133	0.3131
36	15.04	-7.58	0.6104	0.0056	0.2495	0.0092	0.4087	1.1475	-0.0148	0.3566	-0.0129	0.3107
37	15.04	-8.34	0.7010	0.0062	0.2732	0.0089	0.3897	1.1573	-0.0142	0.3624	-0.0123	0.3132
38	15.05	-9.15	0.7694	0.0044	0.3047	0.0058	0.3960	1.1781	-0.0137	0.3620	-0.0117	0.3072
39	15.05	-9.93	0.8401	0.0032	0.3218	0.0039	0.3831	1.1914	-0.0140	0.3687	-0.0117	0.3095
40	15.06	-10.73	0.8971	0.0012	0.3384	0.0013	0.3772	1.2149	-0.0133	0.3721	-0.0110	0.3063
41	15.07	-11.48	0.9552	0.0010	0.3612	0.0011	0.3781	1.2152	-0.0143	0.3721	-0.0118	0.3062
42	15.07	-12.25	1.0140	-0.0001	0.3820	-0.0001	0.3767	1.2458	-0.0141	0.3753	-0.0113	0.3013
43	15.09	-13.00	1.0701	-0.0012	0.3572	-0.0012	0.3711	1.2567	-0.0148	0.3801	-0.0118	0.3025
44	15.10	-13.81	1.1293	-0.0013	0.4123	-0.0012	0.3651	1.2391	-0.0144	0.3823	-0.0117	0.3085
45	15.11	-14.62	1.1716	-0.0018	0.4219	-0.0016	0.3601	1.2437	-0.0155	0.3833	-0.0125	0.3082
46	15.15	-15.48	1.2136	-0.0007	0.4349	-0.0006	0.3583	1.2556	-0.0149	0.3850	-0.0119	0.3066

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	OEL1	OEL2	DEL3	DEL4	TRANSITION	
6 177 1.05 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	15.17	-16.28	1.2430	0.0032	0.4361	0.0026	0.3508	1.2580	-0.0145	0.3868	-0.0116	0.3075
48	15.19	-17.06	1.2794	0.0040	0.4441	0.0032	0.3471	1.2734	-0.0148	0.3846	-0.0116	0.3020
49	15.19	-17.93	1.3167	0.0042	0.4518	0.0032	0.3432	1.2743	-0.0151	0.3894	-0.0118	0.3056
50	15.20	-18.79	1.3442	0.0079	0.4518	0.0059	0.3361	1.2879	-0.0159	0.3914	-0.0123	0.3039
51	15.22	-19.55	1.3365	0.0199	0.4335	0.0149	0.3244	1.2805	-0.0151	0.3890	-0.0118	0.3038

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 178 1.05 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	18.40	19.34	3.7496	-4.5455	-4.2465	5.1593	-0.0640	0.1274	-1.2123
2	18.35	19.28	3.7137	-4.4563	-4.3028	5.1971	-0.0640	0.1284	-1.2000
3	18.35	18.44	3.7068	-4.5766	-4.1805	5.1557	-0.0650	0.1227	-1.2346
4	18.35	17.64	3.7370	-4.6659	-4.0707	5.0260	-0.0370	0.1102	-1.2466
5	18.32	16.80	3.6663	-4.7959	-3.9090	5.0306	-0.0110	0.1061	-1.3081
6	18.32	16.02	3.6421	-4.7280	-3.7197	4.8876	0.0300	0.0928	-1.2981
7	18.29	15.30	3.5685	-4.9639	-3.5616	4.9973	0.0990	0.1021	-1.3910
8	18.27	14.52	3.6384	-5.2358	-3.3265	4.6680	0.1200	0.1124	-1.4390
9	18.24	13.76	3.6052	-5.5483	-3.0885	4.5819	0.1580	0.1301	-1.5389
10	18.24	12.95	3.6872	-5.7930	-2.8316	4.2232	0.1220	0.1271	-1.5711
11	18.23	12.21	3.6709	-5.8632	-2.6988	3.9204	0.1770	0.1370	-1.5972
12	18.22	11.42	3.6797	-6.0525	-2.4810	3.6043	0.1850	0.1338	-1.6448
13	18.20	10.66	3.6563	-6.1977	-2.2847	3.4186	0.2010	0.1482	-1.6951
14	18.18	9.84	3.6167	-6.4072	-2.1178	3.2149	0.2220	0.1601	-1.7716
15	18.16	9.04	3.6015	-6.5649	-1.9494	2.9652	0.2290	0.1683	-1.8228
16	18.11	8.24	3.4662	-6.8455	-1.7756	2.8297	0.2340	0.1794	-1.9636
17	18.11	7.44	3.5206	-7.0046	-1.4973	2.3612	0.1890	0.1716	-1.9896
18	18.09	6.65	3.5761	-7.2473	-1.2317	1.8134	0.1690	0.1729	-2.0266
19	18.10	5.84	3.6559	-7.2820	-1.0102	1.3052	0.1390	0.1768	-1.9918
20	18.10	4.96	3.6394	-7.2949	-0.8608	0.8661	0.1380	0.1742	-2.0044
21	18.10	4.16	3.6452	-7.3360	-0.6475	0.8335	0.2040	0.1743	-2.0125
22	18.10	3.36	3.6410	-7.3851	-0.7491	0.6318	0.1990	0.1698	-2.0283
23	18.08	2.65	3.6034	-7.4735	-0.6121	0.6130	0.1670	0.1602	-2.0740
24	18.07	1.85	3.6155	-7.5830	-0.5188	0.5874	0.1200	0.1599	-2.0950
25	18.06	1.08	3.5902	-7.6160	-0.3236	0.4110	0.0830	0.1656	-2.1213
26	18.07	0.37	3.6534	-7.5685	-0.1626	0.2656	0.0330	0.1751	-2.0716
27	18.06	-0.35	3.6340	-7.6093	-0.0999	0.2928	0.0140	0.1937	-2.0939
28	18.06	-1.24	3.6329	-7.6058	-0.2038	0.4753	0.0180	0.2155	-2.0936
29	18.07	-1.96	3.6452	-7.5520	-0.1407	0.5729	0.0	0.2303	-2.0717
30	18.05	-2.80	3.5513	-7.5565	0.0248	0.3602	0.0090	0.2099	-2.1278
31	18.06	-3.61	3.5734	-7.4655	0.2373	0.1708	-0.0460	0.2199	-2.0892
32	18.06	-4.45	3.5777	-7.4925	0.3216	0.0338	-0.0640	0.2169	-2.0942
33	18.06	-5.19	3.5399	-7.4316	0.4945	-0.3434	-0.0840	0.2184	-2.0994
34	18.05	-5.97	3.5395	-7.4050	0.6791	-0.6218	-0.1320	0.2215	-2.0921
35	18.06	-6.76	3.5265	-7.2848	0.8862	-1.0267	-0.1320	0.2195	-2.0657
36	18.06	-7.59	3.5013	-7.1846	1.1249	-1.5078	-0.1780	0.2210	-2.0519
37	18.07	-8.36	3.4918	-7.0663	1.3390	-1.8946	-0.1850	0.2205	-2.0237
38	18.09	-9.18	3.4734	-6.8336	1.5804	-2.5425	-0.1940	0.2135	-1.9674
39	18.10	-9.94	3.5204	-6.7934	1.7475	-2.8064	-0.1790	0.1953	-1.9297
40	18.12	-10.76	3.5450	-6.5708	1.9360	-3.0304	-0.1610	0.1801	-1.8535
41	18.16	-11.48	3.6276	-6.2505	2.0914	-3.1500	-0.1500	0.1756	-1.7230
42	18.13	-12.30	3.5161	-6.3494	2.1769	-3.5916	-0.1120	0.1727	-1.8058
43	18.16	-13.06	3.5442	-6.0268	2.3885	-3.8638	-0.0980	0.1541	-1.7004
44	18.16	-13.86	3.4947	-5.8795	2.6011	-4.1514	-0.1000	0.1532	-1.6824
45	18.19	-14.70	3.5205	-5.6417	2.7743	-4.3740	-0.0770	0.1509	-1.6025
46	18.23	-15.52	3.5900	-5.2930	3.1270	-4.5918	-0.0530	0.1388	-1.4744

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
6	178	1.05	1.7	0.0	82	NOF12	0.0	0	0	0
								0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	18.24	-16.32	3.6033	-5.1706	3.2231	-4.7123	-0.0190	0.1381	-1.4350	
48	18.27	-17.08	3.6632	-4.9375	3.5215	-4.7722	0.0270	0.1501	-1.3479	
49	18.29	-17.97	3.7404	-4.7626	3.7641	-4.7398	0.0660	0.1730	-1.2733	
50	18.29	-18.82	3.8029	-4.9471	3.8330	-4.7863	0.1160	0.1925	-1.3009	
51	18.31	-19.59	3.7912	-4.5948	4.1977	-5.0688	0.1380	0.2030	-1.2120	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	178	1.05	1.7	0.0	0.2	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YC PF1	CNF2	CH2	CB2	XCPF2	YC PF2
1	18.40	19.34	-0.3765	0.0514	-0.1684	-0.1365	0.4471	0.7078	0.0343	0.1639	0.0484	0.2315
2	18.35	19.28	-0.3693	0.0507	-0.1697	-0.1374	0.4594	0.8500	0.0338	0.1383	0.0398	0.1627
3	18.35	18.44	-0.3667	0.0505	-0.1658	-0.1378	0.4521	0.7574	0.0336	0.1584	0.0444	0.2091
4	18.35	17.64	-0.3341	0.0498	-0.1593	-0.1490	0.4768	0.9012	0.0343	0.1218	0.0381	0.1352
5	18.32	16.80	-0.3371	0.0488	-0.1625	-0.1447	0.4821	0.9200	0.0347	0.1200	0.0378	0.1304
6	18.32	16.02	-0.2437	0.0482	-0.1348	-0.1980	0.5532	0.9166	0.0349	0.1109	0.0381	0.1210
7	18.29	15.30	-0.1830	0.0451	-0.1165	-0.2464	0.6365	0.8849	0.0350	0.1122	0.0396	0.1268
8	18.27	14.52	-0.1558	0.0426	-0.0997	-0.2734	0.6400	0.8793	0.0352	0.1069	0.0400	0.1216
9	18.24	13.76	-0.1179	0.0395	-0.0866	-0.3354	0.7293	0.8468	0.0352	0.1106	0.0416	0.1306
10	18.24	12.95	-0.1432	0.0412	-0.0951	-0.2877	0.6642	0.5558	0.0344	0.1764	0.0619	0.3174
11	18.23	12.21	-0.0669	0.0340	-0.0707	-0.5081	1.0567	0.7983	0.0353	0.1092	0.0443	0.1368
12	18.22	11.42	-0.0518	0.0333	-0.0603	-0.6437	1.1653	0.5313	0.0348	0.1608	0.0656	0.3027
13	18.20	10.66	-0.0310	0.0308	-0.0453	-0.9934	1.4622	0.5819	0.0347	0.1456	0.0597	0.2502
14	18.18	9.84	0.0120	0.0258	-0.0225	2.1538	-1.8751	0.4748	0.0345	0.1567	0.0727	0.3301
15	18.16	9.04	0.0451	0.0257	-0.0162	0.5709	-0.3586	0.3658	0.0347	0.1731	0.0948	0.4731
16	18.11	8.24	0.0594	0.0298	-0.0159	0.5064	-0.2678	0.3994	0.0351	0.1560	0.0880	0.3905
17	18.11	7.44	0.0859	0.0398	-0.0209	0.4632	-0.2430	0.3781	0.0352	0.1557	0.0931	0.4117
18	18.09	6.65	0.1013	0.0476	-0.0226	0.4698	-0.2235	0.4014	0.0351	0.1517	0.0874	0.3778
19	18.10	5.84	0.1220	0.0424	-0.0112	0.3475	-0.0922	0.3394	0.0349	0.1587	0.1028	0.4675
20	18.10	4.96	0.1697	0.0423	0.0088	0.2442	0.0521	0.3128	0.0344	0.1539	0.1101	0.4921
21	18.10	4.16	0.2528	0.0208	0.0596	0.0825	0.2359	0.2603	0.0345	0.1476	0.1327	0.5672
22	18.10	3.36	0.2391	0.0198	0.0626	0.0828	0.2617	0.2295	0.0349	0.1406	0.1520	0.6130
23	18.08	2.65	0.1983	0.0116	0.0537	0.0585	0.2707	0.2009	0.0356	0.1331	0.1772	0.6627
24	18.07	1.85	0.1256	0.0074	0.0358	0.0593	0.2854	0.2218	0.0362	0.1187	0.1632	0.5352
25	18.06	1.08	0.1029	0.0159	0.0175	0.1545	0.1699	0.2196	0.0363	0.1118	0.1653	0.5090
26	18.07	0.37	0.0491	0.0084	0.0028	0.1710	0.0562	0.2023	0.0363	0.1062	0.1794	0.5250
27	18.06	-0.35	-0.0245	-0.0062	-0.0033	0.2530	0.1332	0.1603	0.0364	0.0925	0.2273	0.5771
28	18.06	-1.24	-0.0949	-0.0234	-0.0096	0.2465	0.1014	0.2157	0.0363	0.0678	0.1683	0.3142
29	18.07	-1.96	-0.1477	-0.0355	-0.0119	0.2403	0.0807	0.3052	0.0361	0.0302	0.1184	0.0990
30	18.05	-2.80	-0.1417	-0.0503	0.0007	0.3553	-0.0048	0.3160	0.0359	0.0133	0.1136	0.0422
31	18.06	-3.61	-0.1925	-0.0481	-0.0168	0.2498	0.0875	0.3656	0.0362	-0.0068	0.0990	-0.0187
32	18.06	-4.45	-0.1958	-0.0516	-0.0199	0.2635	0.1019	0.3353	0.0362	-0.0132	0.1081	-0.0355
33	18.06	-5.19	-0.1735	-0.0524	-0.0111	0.3023	0.0641	0.3131	0.0353	-0.0201	0.1128	-0.0643
34	18.05	-5.97	-0.2076	-0.0478	-0.0246	0.2302	0.1184	0.3426	0.0352	-0.0244	0.1028	-0.0712
35	18.06	-6.76	-0.1646	-0.0461	-0.0156	0.2803	0.0951	0.3081	0.0346	-0.0290	0.1124	-0.0941
36	18.06	-7.59	-0.1703	-0.0406	-0.0168	0.2387	0.0989	0.3037	0.0340	-0.0317	0.1121	-0.1042
37	18.07	-8.36	-0.1160	-0.0330	-0.0094	0.2849	0.0806	0.3158	0.0328	-0.0383	0.1040	-0.1214
38	18.09	-9.18	-0.0704	-0.0327	0.0021	0.4644	-0.0304	0.3197	0.0316	-0.0469	0.0988	-0.1468
39	18.10	-9.94	-0.0015	-0.0308	0.0198	20.5630	-13.2001	0.3223	0.0301	-0.0613	0.0935	-0.1900
40	18.12	-10.76	0.0466	-0.0334	0.0352	-0.7177	0.7560	0.2916	0.0287	-0.0730	0.0985	-0.2503
41	18.16	-11.48	0.0674	-0.0304	0.0371	-0.4510	0.5498	0.2258	0.0273	-0.0894	0.1209	-0.3962
42	18.13	-12.30	0.1454	-0.0410	0.0724	-0.2823	0.4983	0.2007	0.0270	-0.0982	0.1345	-0.4894
43	18.16	-13.06	0.1632	-0.0445	0.0853	-0.2726	0.5226	0.1845	0.0261	-0.1073	0.1414	-0.5817
44	18.16	-13.86	0.1745	-0.0431	0.0824	-0.2469	0.4725	0.1666	0.0254	-0.1138	0.1527	-0.6830
45	18.19	-14.70	0.2051	-0.0473	0.1011	-0.2318	0.4931	0.1030	0.0245	-0.1288	0.2383	-1.2503
46	18.23	-15.52	0.2284	-0.0456	0.1088	-0.1998	0.4764	0.0493	0.0242	-0.1421	0.4918	-2.8838

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		178		1.05 1.7		0.0	82WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	18.24	-16.32	0.2708	-0.0484	0.1195	-0.1787	0.4414	0.0111	0.0241	-0.1549	2.1708	-13.9551	
48	18.27	-17.08	0.3033	-0.0487	0.1322	-0.1607	0.4357	-0.0862	0.0245	-0.1653	-0.2842	1.9179	
49	18.29	-17.97	0.3069	-0.0475	0.1330	-0.1547	0.4332	-0.1239	0.0241	-0.1757	-0.1949	1.4180	
50	18.29	-18.82	0.3480	-0.0516	0.1541	-0.1331	0.3971	-0.0893	0.0228	-0.1803	-0.2553	2.0197	
51	18.31	-19.59	0.4272	-0.0526	0.1665	-0.1232	0.3896	-0.1480	0.0241	-0.1934	-0.1628	1.3069	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 178 1.05 1.7			0.0	82WUFL2	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	18.40	19.34	-1.2770	-0.0059	-0.4725	0.0046	0.3700	0.2660	-0.0499	0.1210	-0.1876	0.4550
2	18.35	19.28	-1.2860	-0.0050	-0.4718	0.0039	0.3669	0.2632	-0.0485	0.1157	-0.1844	0.4396
3	18.35	18.44	-1.2697	-0.0036	-0.4706	0.0029	0.3706	0.2697	-0.0487	0.1179	-0.1805	0.4374
4	18.35	17.64	-1.2535	-0.0016	-0.4696	0.0013	0.3746	0.2888	-0.0497	0.1268	-0.1722	0.4391
5	18.32	16.80	-1.2422	0.0015	-0.4703	-0.0012	0.3786	0.3338	-0.0490	0.1418	-0.1469	0.4249
6	18.32	16.02	-1.2209	0.0065	-0.4767	-0.0053	0.3905	0.3231	-0.0486	0.1425	-0.1505	0.4409
7	18.29	15.30	-1.2027	0.0112	-0.4778	-0.0093	0.3973	0.3958	-0.0501	0.1617	-0.1267	0.4085
8	18.27	14.52	-1.1526	0.0112	-0.4659	-0.0097	0.4043	0.4523	-0.0497	0.1729	-0.1099	0.3823
9	18.24	13.76	-1.0987	0.0105	-0.4558	-0.0096	0.4148	0.5135	-0.0494	0.1941	-0.0962	0.3780
10	18.24	12.95	-1.0576	0.0097	-0.4397	-0.0092	0.4157	0.5302	-0.0454	0.1927	-0.0857	0.3634
11	18.23	12.21	-1.0011	0.0070	-0.4228	-0.0070	0.4223	0.6067	-0.0444	0.2102	-0.0732	0.3464
12	18.22	11.42	-0.9487	0.0053	-0.4036	-0.0056	0.4254	0.6325	-0.0424	0.2170	-0.0671	0.3430
13	18.20	10.66	-0.8954	0.0035	-0.3857	-0.0040	0.4307	0.6817	-0.0397	0.2264	-0.0582	0.3322
14	18.18	9.84	-0.8449	0.0006	-0.3682	-0.0008	0.4358	0.7287	-0.0359	0.2420	-0.0493	0.3321
15	18.16	9.04	-0.7824	-0.0017	-0.3512	0.0022	0.4607	0.7677	-0.0322	0.2502	-0.0419	0.3259
16	18.11	8.24	-0.6953	-0.0061	-0.3245	0.0088	0.4667	0.8277	-0.0243	0.2654	-0.0294	0.3207
17	18.11	7.44	-0.6182	-0.0079	-0.3017	0.0128	0.4880	0.8228	-0.0217	0.2670	-0.0264	0.3245
18	18.09	6.65	-0.5431	-0.0090	-0.2688	0.0166	0.4948	0.8358	-0.0199	0.2684	-0.0239	0.3211
19	18.10	5.84	-0.4731	-0.0067	-0.2367	0.0143	0.5004	0.8381	-0.0183	0.2718	-0.0218	0.3243
20	18.10	4.96	-0.3986	-0.0062	-0.2083	0.0157	0.5226	0.8603	-0.0145	0.2771	-0.0169	0.3221
21	18.10	4.16	-0.3483	-0.0074	-0.1852	0.0212	0.5315	0.9390	-0.0092	0.2923	-0.0098	0.3113
22	18.10	3.36	-0.2673	-0.0071	-0.1522	0.0267	0.5697	0.9695	-0.0077	0.3056	-0.0080	0.3152
23	18.08	2.65	-0.2144	-0.0067	-0.1269	0.0315	0.5921	1.0209	-0.0073	0.3121	-0.0071	0.3057
24	18.07	1.85	-0.1359	-0.0052	-0.0935	0.0383	0.6879	1.0598	-0.0077	0.3242	-0.0073	0.3060
25	18.06	1.08	-0.0729	-0.0051	-0.0616	0.0649	0.8449	1.0563	-0.0071	0.3281	-0.0068	0.3106
26	18.07	0.37	-0.0145	-0.0050	-0.0335	0.3448	2.3125	1.0940	-0.0081	0.3330	-0.0074	0.3044
27	18.06	-0.35	0.0329	-0.0051	-0.0035	-0.1565	-0.1075	1.1368	-0.0086	0.3459	-0.0076	0.3043
28	18.06	-1.24	0.0900	-0.0048	-0.0181	-0.0530	0.1997	1.1746	-0.0096	0.3595	-0.0082	0.3061
29	18.07	-1.96	0.1352	-0.0046	0.0456	-0.0344	0.3377	1.2131	-0.0105	0.3652	-0.0087	0.3011
30	18.05	-2.80	0.2030	-0.0038	0.0786	-0.0190	0.3874	1.2353	-0.0106	0.3747	-0.0086	0.3033
31	18.06	-3.61	0.2704	-0.0029	0.1127	-0.0087	0.4168	1.2636	-0.0115	0.3764	-0.0091	0.2979
32	18.06	-4.45	0.3390	-0.0007	0.1385	-0.0021	0.4084	1.2754	-0.0121	0.3808	-0.0095	0.2986
33	18.06	-5.19	0.4086	0.0015	0.1691	0.0037	0.4137	1.2911	-0.0129	0.3833	-0.0100	0.2969
34	18.05	-5.97	0.4875	0.0040	0.2011	0.0082	0.4126	1.3100	-0.0129	0.3881	-0.0099	0.2963
35	18.06	-6.76	0.5657	0.0044	0.2281	0.0078	0.4032	1.3155	-0.0130	0.3888	-0.0099	0.2956
36	18.06	-7.59	0.6431	0.0078	0.2592	0.0122	0.4030	1.3123	-0.0132	0.3900	-0.0101	0.2972
37	18.07	-8.36	0.7099	0.0079	0.2827	0.0112	0.3983	1.3259	-0.0126	0.3902	-0.0095	0.2943
38	18.09	-9.18	0.8076	0.0066	0.3114	0.0082	0.3856	1.3203	-0.0123	0.3915	-0.0094	0.2966
39	18.10	-9.94	0.8842	0.0040	0.3367	0.0066	0.3896	1.3452	-0.0107	0.3947	-0.0080	0.2934
40	18.12	-10.76	0.9332	0.0025	0.3517	0.0027	0.3768	1.3640	-0.0099	0.3957	-0.0073	0.2901
41	18.16	-11.48	0.9911	0.0002	0.3718	0.0003	0.3752	1.3670	-0.0093	0.3973	-0.0068	0.2906
42	18.13	-12.30	1.0476	-0.0005	0.3887	-0.0005	0.3710	1.3896	-0.0094	0.4019	-0.0068	0.2892
43	18.16	-13.06	1.1105	-0.0011	0.4068	-0.0010	0.3663	1.3993	-0.0081	0.3997	-0.0058	0.2856
44	18.16	-13.86	1.1781	-0.0013	0.4224	-0.0011	0.3586	1.4048	-0.0091	0.4045	-0.0065	0.2880
45	18.19	-14.70	1.2179	-0.0021	0.4375	-0.0018	0.3592	1.4196	-0.0086	0.4050	-0.0061	0.2853
46	18.23	-15.52	1.2802	-0.0013	0.4504	-0.0010	0.3518	1.4282	-0.0090	0.4071	-0.0063	0.2851

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6	178	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	18.24	-16.32	1.3106	0.0001	0.4571	0.0001	0.3488	1.4418	-0.0100	0.4100	-0.0070	0.2843
48	18.27	-17.08	1.3272	0.0049	0.4577	0.0037	0.3449	1.4573	-0.0126	0.4151	-0.0087	0.2848
49	18.29	-17.97	1.3486	0.0106	0.4528	0.0079	0.3357	1.4739	-0.0161	0.4252	-0.0110	0.2885
50	18.29	-18.82	1.3494	0.0202	0.4392	0.0150	0.3255	1.4785	-0.0164	0.4263	-0.0111	0.2883
51	18.31	-19.59	1.3973	0.0196	0.4506	0.0141	0.3225	1.4759	-0.0170	0.4249	-0.0115	0.2879

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		179 1.05 1.7		0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	21.55	19.46	4.4889	-4.3407	-4.4246	4.7377	0.0600	0.1479	-0.9670		
2	21.55	19.02	4.5011	-4.3858	-4.3576	4.7899	0.0730	0.1285	-0.9744		
3	21.53	18.28	4.3958	-4.3804	-4.3140	4.8718	0.0850	0.1310	-0.9965		
4	21.53	17.38	4.4696	-4.5917	-4.2398	4.6569	0.0930	0.1250	-1.0273		
5	21.51	16.62	4.3737	-4.5624	-4.1354	4.6956	0.1110	0.1274	-1.0431		
6	21.51	15.78	4.4278	-4.7321	-3.8827	4.6089	0.1730	0.1294	-1.0687		
7	21.48	15.03	4.3717	-5.0116	-3.7781	4.6794	0.2130	0.1345	-1.1464		
8	21.46	14.27	4.3805	-5.2029	-3.4872	4.3682	0.2290	0.1259	-1.1877		
9	21.45	13.47	4.2840	-5.0898	-3.2300	4.0750	0.3110	0.1358	-1.1881		
10	21.42	12.73	4.4292	-5.8999	-3.0171	3.8770	0.2630	0.1441	-1.3321		
11	21.40	11.94	4.2346	-5.6205	-2.7939	3.8505	0.3350	0.1429	-1.3273		
12	21.37	11.18	4.1490	-5.8165	-2.4787	3.4581	0.3240	0.1367	-1.4019		
13	21.36	10.38	4.1867	-6.0973	-2.4135	3.4359	0.3560	0.1420	-1.4564		
14	21.33	9.52	4.2623	-6.6562	-2.1828	3.1279	0.2910	0.1269	-1.5616		
15	21.30	8.75	4.2440	-6.9175	-1.9454	2.7876	0.2990	0.1402	-1.6299		
16	21.29	7.91	4.2161	-7.0715	-1.6217	2.1834	0.2560	0.1412	-1.6772		
17	21.28	7.10	4.2686	-7.2319	-1.4324	1.8094	0.2660	0.1474	-1.6942		
18	21.28	6.27	4.4199	-7.5467	-1.1814	1.0961	0.2640	0.1375	-1.7074		
19	21.26	5.45	4.4308	-7.7389	-1.0369	0.8997	0.2370	0.1452	-1.7466		
20	21.27	4.64	4.4456	-7.7903	-0.8484	0.4568	0.2590	0.1475	-1.7508		
21	21.24	3.83	4.3965	-8.0259	-0.8587	0.7532	0.2060	0.1574	-1.8255		
22	21.21	3.06	4.2937	-8.1909	-0.6509	0.5843	0.1840	0.1674	-1.9076		
23	21.18	2.29	4.3311	-8.2503	-0.4560	0.1705	0.1230	0.1643	-1.9049		
24	21.17	1.52	4.2916	-8.3840	-0.2737	-0.0598	0.0850	0.1755	-1.9536		
25	21.17	0.72	4.2782	-8.3852	-0.0333	-0.3703	0.0330	0.1752	-1.9600		
26	21.21	0.01	4.4043	-8.2488	-0.1562	0.1327	0.0250	0.1763	-1.8729		
27	21.19	-0.78	4.3428	-8.3207	-0.1844	0.5401	-0.0230	0.1811	-1.9160		
28	21.18	-1.57	4.3004	-8.3143	-0.0557	0.4759	-0.0450	0.1790	-1.9334		
29	21.18	-2.43	4.3094	-8.3839	0.1054	0.3064	-0.1000	0.1776	-1.9455		
30	21.18	-3.17	4.2620	-8.2346	0.2363	0.3751	-0.1270	0.1774	-1.9321		
31	21.19	-4.06	4.2723	-8.1490	0.3180	0.0438	-0.1630	0.1723	-1.9074		
32	21.19	-4.84	4.2666	-8.0830	0.3955	0.0426	-0.1840	0.1743	-1.8945		
33	21.20	-5.59	4.2469	-7.9745	0.7348	-0.4038	-0.2140	0.1754	-1.8777		
34	21.20	-6.39	4.2452	-7.9031	0.8896	-0.6935	-0.2410	0.1766	-1.8616		
35	21.21	-7.22	4.1933	-7.6343	1.0272	-0.9621	-0.2440	0.1741	-1.8206		
36	21.23	-8.01	4.2117	-7.5082	1.2697	-1.4187	-0.2670	0.1697	-1.7827		
37	21.26	-8.84	4.1953	-7.0402	1.4369	-1.7787	-0.2560	0.1803	-1.6781		
38	21.28	-9.61	4.2500	-6.9709	1.6331	-2.0693	-0.2510	0.1712	-1.6402		
39	21.29	-10.41	4.2351	-6.6581	1.9595	-2.6414	-0.2570	0.1579	-1.5721		
40	21.31	-11.16	4.2523	-6.4622	2.0731	-2.8544	-0.2430	0.1622	-1.5197		
41	21.33	-11.97	4.2458	-6.2551	2.2899	-3.2109	-0.2220	0.1607	-1.4732		
42	21.36	-12.72	4.2750	-5.9651	2.5912	-3.5746	-0.2340	0.1499	-1.3953		
43	21.37	-13.54	4.2933	-5.8187	2.7298	-3.7438	-0.2190	0.1461	-1.3553		
44	21.40	-14.36	4.2865	-5.5142	2.8962	-3.9087	-0.2040	0.1434	-1.2864		
45	21.41	-15.19	4.2905	-5.3728	3.1196	-4.0575	-0.1880	0.1380	-1.2523		
46	21.42	-16.01	4.2909	-5.1454	3.3780	-4.2772	-0.1970	0.1256	-1.1991		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 179 1.05 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CAF	XCP
47	21.46	-16.82	4.3431	-4.8545	3.5634	-4.3569	-0.1290	0.1220	-1.1178
48	21.48	-17.69	4.4210	-4.7426	3.7868	-4.3836	-0.0650	0.1218	-1.0727
49	21.48	-18.50	4.4147	-4.7228	4.0820	-4.4509	-0.0350	0.1483	-1.0698
50	21.51	-19.36	4.4785	-4.5231	4.2736	-4.7393	0.0100	0.1403	-1.0100
51	21.52	-20.09	4.5833	-4.6229	4.5892	-4.5651	0.0740	0.1398	-1.0086

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		179	1.05	1.7	0.0	82WUF12	0.0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	21.55	19.46	-0.2723	0.0569	-0.1444	-0.2089	0.5304	0.5776	0.0381	0.1577	0.0659	0.2730
2	21.55	19.02	-0.2764	0.0560	-0.1414	-0.2027	0.5115	0.5261	0.0382	0.1626	0.0727	0.3091
3	21.53	18.28	-0.2498	0.0554	-0.1371	-0.2219	0.5490	0.5497	0.0381	0.1624	0.0693	0.2954
4	21.53	17.38	-0.2381	0.0544	-0.1265	-0.2244	0.5331	0.5908	0.0379	0.1542	0.0641	0.2610
5	21.51	16.62	-0.1954	0.0545	-0.1166	-0.2789	0.5968	0.6178	0.0376	0.1563	0.0608	0.2529
6	21.51	15.78	-0.1515	0.0504	-0.0986	-0.3329	0.6507	0.5705	0.0375	0.1663	0.0657	0.2915
7	21.48	15.03	-0.0909	0.0450	-0.0790	-0.4950	0.8690	0.6579	0.0373	0.1514	0.0567	0.2302
8	21.46	14.27	-0.1112	0.0466	-0.0784	-0.4190	0.7055	0.6884	0.0381	0.1240	0.0554	0.1801
9	21.45	13.47	-0.0671	0.0403	-0.0641	-0.6005	0.9562	0.5150	0.0386	0.0941	0.0749	0.1828
10	21.42	12.73	-0.0247	0.0420	-0.0503	-1.7001	2.0377	0.6998	0.0383	0.1201	0.0547	0.1716
11	21.40	11.94	-0.0503	0.0335	-0.0492	-0.6748	0.9773	0.5728	0.0384	0.0765	0.0670	0.1335
12	21.37	11.18	-0.0631	0.0306	-0.0579	-0.4849	0.9180	0.5587	0.0390	0.0696	0.0699	0.1246
13	21.36	10.38	0.0160	0.0259	-0.0260	1.6185	-1.6230	0.5771	0.0382	0.0696	0.0663	0.1206
14	21.33	9.52	0.0019	0.0280	-0.0215	14.7605	-11.2984	0.6634	0.0386	0.1053	0.0582	0.1587
15	21.30	8.75	0.0638	0.0254	-0.0068	0.3988	-0.1072	0.6452	0.0381	0.1076	0.0590	0.1668
16	21.29	7.91	0.0948	0.0314	-0.0027	0.3317	-0.0286	0.6510	0.0378	0.0993	0.0581	0.1526
17	21.28	7.10	0.1511	0.0257	0.0206	0.1704	0.1367	0.6327	0.0374	0.1071	0.0591	0.1693
18	21.28	6.27	0.2443	0.0122	0.0581	0.0499	0.2378	0.7392	0.0344	0.1056	0.0466	0.1429
19	21.26	5.45	0.2456	0.0164	0.0550	0.0670	0.2241	0.7628	0.0333	0.1067	0.0436	0.1399
20	21.27	4.64	0.2927	-0.0053	0.0960	-0.0181	0.3281	0.5978	0.0321	0.1414	0.0537	0.2365
21	21.24	3.83	0.1979	0.0050	0.0628	0.0253	0.3176	0.5502	0.0321	0.1416	0.0583	0.2574
22	21.21	3.06	0.2105	0.0074	0.0715	0.0354	0.3399	0.5132	0.0321	0.1426	0.0625	0.2779
23	21.18	2.29	0.1866	0.0197	0.0433	0.1058	0.2319	0.5723	0.0319	0.1278	0.0558	0.2233
24	21.17	1.52	0.1734	0.0254	0.0281	0.1465	0.1619	0.5431	0.0318	0.1267	0.0585	0.2333
25	21.17	0.72	0.1349	0.0359	0.0045	0.2664	0.0337	0.5363	0.0319	0.1252	0.0595	0.2335
26	21.21	0.01	0.0314	0.0037	-0.0006	0.1178	-0.0203	0.5051	0.0317	0.1047	0.0627	0.2073
27	21.19	-0.78	-0.0941	-0.0034	-0.0299	0.0367	0.3183	0.4759	0.0319	0.0950	0.0671	0.1996
28	21.18	-1.57	-0.1417	-0.0140	-0.0400	0.0988	0.2824	0.4130	0.0318	0.0888	0.0770	0.2151
29	21.18	-2.43	-0.2143	-0.0188	-0.0562	0.0877	0.2623	0.4432	0.0318	0.0691	0.0717	0.1559
30	21.18	-3.17	-0.2630	-0.0234	-0.0740	0.0891	0.2815	0.3542	0.0316	0.0644	0.0892	0.1819
31	21.19	-4.06	-0.3059	-0.0257	-0.0822	0.0840	0.2688	0.3846	0.0312	0.0455	0.0811	0.1182
32	21.19	-4.84	-0.3162	-0.0244	-0.0840	0.0931	0.2656	0.3944	0.0308	0.0296	0.0781	0.0752
33	21.20	-5.59	-0.3065	-0.0291	-0.0809	0.0951	0.2641	0.3757	0.0304	0.0198	0.0810	0.0527
34	21.20	-6.39	-0.3047	-0.0243	-0.0871	0.0799	0.2860	0.4212	0.0303	0.0042	0.0719	0.0099
35	21.21	-7.22	-0.2647	-0.0270	-0.0659	0.1020	0.2490	0.3329	0.0294	-0.0001	0.0884	-0.0004
36	21.23	-8.01	-0.2395	-0.0241	-0.0533	0.1006	0.2226	0.3351	0.0284	-0.0085	0.0849	-0.0254
37	21.26	-8.84	-0.1592	-0.0349	-0.0182	0.2195	0.1146	0.2996	0.0271	-0.0186	0.0906	-0.0622
38	21.28	-9.61	-0.1254	-0.0310	-0.0125	0.2476	0.0996	0.2967	0.0259	-0.0292	0.0872	-0.0984
39	21.29	-10.41	-0.0608	-0.0338	0.0046	0.3558	-0.0763	0.2614	0.0245	-0.0389	0.0937	-0.1488
40	21.31	-11.16	-0.0217	-0.0365	0.0133	1.6817	-0.6115	0.2350	0.0236	-0.0480	0.1006	-0.2042
41	21.33	-11.97	0.0334	-0.0388	0.0271	-1.1615	0.8123	0.1997	0.0228	-0.0580	0.1144	-0.2907
42	21.36	-12.72	0.0574	-0.0365	0.0279	-0.6366	0.4865	0.2144	0.0223	-0.0705	0.1042	-0.3291
43	21.37	-13.54	0.0847	-0.0404	0.0445	-0.4775	0.5257	0.1474	0.0220	-0.0780	0.1496	-0.3291
44	21.40	-14.36	0.1200	-0.0418	0.0566	-0.4483	0.4715	0.1332	0.0215	-0.0949	0.1618	-0.7126
45	21.41	-15.19	0.1449	-0.0466	0.0693	-0.3219	0.4795	0.0951	0.0211	-0.1043	0.2218	-1.0969
46	21.42	-16.01	0.1770	-0.0479	0.0821	-0.2709	0.4637	0.0580	0.0206	-0.1200	0.3360	-2.0685

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MAC+ RX10-6													
6		179 1.05 1.7		PHI CONF		L		DEL1	DEL2	DEL3	DEL4	TRANSITION	
				0.0 82W0F12		0.0		0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	21.46	-16.82	0.2085	-0.0505	0.0957	-0.2422	0.4589	0.0477	0.0204	-0.1328	0.4286	-2.7842	
48	21.48	-17.69	0.2603	-0.0546	0.1102	-0.2097	0.4235	0.0143	0.0198	-0.1421	1.3879	-9.9395	
49	21.48	-18.50	0.2820	-0.0560	0.1222	-0.1985	0.4332	0.0035	0.0195	-0.1468	5.5704	-41.9525	
50	21.51	-19.36	0.3407	-0.0587	0.1375	-0.1724	0.4036	-0.0506	0.0227	-0.1681	-0.4495	3.3233	
51	21.52	-20.09	0.3849	-0.0624	0.1565	-0.1620	0.4065	-0.0611	0.0216	-0.1678	-0.3543	2.7473	

PAGE 3 OF 3

MARTIN MISSILE TAILS EFFECTS DATA

SHEET 1 OF 2

TEST PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	179	1.05	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	21.55	19.46	-1.3201	0.0010	-0.4931	-0.0008	0.3735	0.3391	-0.0494	0.1414	-0.1458	0.4169
2	21.55	19.02	-1.3086	-0.0002	-0.4905	-0.0002	0.3749	0.3462	-0.0498	0.1413	-0.1439	0.4080
3	21.53	18.28	-1.3253	0.0090	-0.5018	-0.0068	0.3786	0.3522	-0.0460	0.1403	-0.1307	0.3982
4	21.53	17.38	-1.2833	0.0021	-0.4826	-0.0017	0.3761	0.3488	-0.0520	0.1559	-0.1303	0.3909
5	21.51	16.62	-1.2798	0.0064	-0.4846	-0.0050	0.3787	0.3903	-0.0529	0.1623	-0.1356	0.4157
6	21.51	15.78	-1.2564	0.0131	-0.4925	-0.0105	0.3923	0.4556	-0.0514	0.1792	-0.1128	0.3933
7	21.48	15.03	-1.2239	0.0127	-0.4837	-0.0104	0.3952	0.5392	-0.0520	0.1940	-0.0964	0.3597
8	21.46	14.27	-1.1733	0.0111	-0.4729	-0.0095	0.4031	0.5952	-0.0488	0.2038	-0.0820	0.3425
9	21.45	13.47	-1.1276	0.0105	-0.4592	-0.0094	0.4073	0.6283	-0.0470	0.2123	-0.0748	0.3378
10	21.42	12.73	-1.0786	0.0081	-0.4402	-0.0075	0.4081	0.6737	-0.0470	0.2273	-0.0647	0.3374
11	21.40	11.94	-1.0311	0.0058	-0.4241	-0.0056	0.4113	0.7381	-0.0403	0.2422	-0.0546	0.3282
12	21.37	11.18	-0.9499	0.0016	-0.4064	-0.0017	0.4278	0.8066	-0.0337	0.2583	-0.0418	0.3202
13	21.36	10.38	-0.8912	0.0011	-0.3916	-0.0012	0.4393	0.8231	-0.0353	0.2630	-0.0429	0.3195
14	21.33	9.52	-0.8320	-0.0016	-0.3676	-0.0019	0.4418	0.8810	-0.0297	0.2790	-0.0337	0.3166
15	21.30	8.75	-0.7494	-0.0036	-0.3482	0.0049	0.4646	0.9095	-0.0269	0.2850	-0.0296	0.3133
16	21.29	7.91	-0.6704	-0.0057	-0.3218	0.0086	0.4800	0.9035	-0.0253	0.2862	-0.0280	0.3167
17	21.28	7.10	-0.6076	-0.0085	-0.2963	0.0140	0.4877	0.9175	-0.0230	0.2931	-0.0251	0.3195
18	21.28	6.27	-0.5274	-0.0091	-0.2588	0.0173	0.4908	0.9465	-0.0212	0.2960	-0.0224	0.3127
19	21.26	5.45	-0.4688	-0.0096	-0.2323	0.0205	0.4955	0.9892	-0.0191	0.3044	-0.0193	0.3077
20	21.27	4.64	-0.3913	-0.0099	-0.2042	0.0253	0.5218	1.0039	-0.0175	0.3148	-0.0175	0.3136
21	21.24	3.83	-0.3235	-0.0107	-0.1696	0.0331	0.5251	1.0696	-0.0157	0.3278	-0.0147	0.3065
22	21.21	3.06	-0.2585	-0.0095	-0.1423	0.0369	0.5506	1.1090	-0.0116	0.3335	-0.0105	0.3008
23	21.18	2.29	-0.1711	-0.0069	-0.1059	0.0406	0.6190	1.1179	-0.0111	0.3345	-0.0099	0.2992
24	21.17	1.52	-0.1075	-0.0055	-0.0758	0.0516	0.7053	1.1422	-0.0098	0.3395	-0.0086	0.2972
25	21.17	0.72	-0.0286	-0.0035	-0.0425	0.1241	1.5010	1.1406	-0.0095	0.3417	-0.0084	0.2996
26	21.21	0.01	0.0090	-0.0037	-0.0203	-0.4110	-2.2557	1.2126	-0.0097	0.3595	-0.0080	0.2964
27	21.19	-0.78	0.0679	-0.0046	0.0103	-0.0677	0.1521	1.2518	-0.0090	0.3735	-0.0072	0.2984
28	21.18	-1.57	0.1212	-0.0038	0.0399	-0.0318	0.3291	1.2477	-0.0078	0.3841	-0.0060	0.2960
29	21.18	-2.43	0.1890	-0.0023	0.0734	-0.0124	0.3882	1.3244	-0.0084	0.3856	-0.0064	0.2912
30	21.18	-3.17	0.2618	0.0012	0.1058	0.0046	0.4043	1.3589	-0.0086	0.3930	-0.0065	0.2892
31	21.19	-4.06	0.3300	0.0038	0.1336	0.0115	0.4047	1.3645	-0.0083	0.3985	-0.0061	0.2920
32	21.19	-4.84	0.4029	0.0060	0.1646	0.0150	0.4084	1.3914	-0.0090	0.3988	-0.0065	0.2866
33	21.20	-5.59	0.4771	0.0061	0.1987	0.0129	0.4164	1.3937	-0.0083	0.4033	-0.0060	0.2894
34	21.20	-6.39	0.5690	0.0078	0.2270	0.0118	0.3989	1.4181	-0.0086	0.4050	-0.0061	0.2856
35	21.21	-7.22	0.6488	0.0092	0.2570	0.0142	0.3961	1.4133	-0.0051	0.4012	-0.0036	0.2838
36	21.23	-8.01	0.7192	0.0080	0.2867	0.0111	0.3987	1.3963	0.0005	0.3966	0.0004	0.2840
37	21.26	-8.84	0.7908	0.0063	0.3110	0.0030	0.3950	1.3675	0.0074	0.3821	0.0055	0.2805
38	21.28	-9.61	0.8681	0.0054	0.3337	0.0062	0.3843	1.3883	0.0061	0.3879	0.0044	0.2794
39	21.29	-10.41	0.9374	0.0030	0.3584	0.0032	0.3823	1.3885	0.0080	0.3856	0.0058	0.2777
40	21.31	-11.16	1.0023	0.0022	0.3734	0.0022	0.3725	1.3958	0.0089	0.3843	0.0064	0.2753
41	21.33	-11.97	1.0650	0.0006	0.3926	0.0006	0.3686	1.3920	0.0090	0.3880	0.0065	0.2787
42	21.36	-12.72	1.1202	-0.0011	0.4114	-0.0010	0.3672	1.3846	0.0104	0.3836	0.0075	0.2770
43	21.37	-13.54	1.1843	-0.0022	0.4261	-0.0019	0.3598	1.3936	0.0107	0.3860	0.0077	0.2770
44	21.40	-14.36	1.2334	-0.0027	0.4419	-0.0022	0.3583	1.3843	0.0119	0.3832	0.0086	0.2768
45	21.41	-15.19	1.2866	-0.0037	0.4568	-0.0029	0.3551	1.4230	0.0109	0.3884	0.0077	0.2729
46	21.42	-16.01	1.3331	-0.0033	0.4676	-0.0025	0.3508	1.4139	0.0113	0.3901	0.0080	0.2759

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER/NSRDC/

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PM1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 179 1.05 1.7				0.0	BZNOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPE3	YCPE3	CNF4	CM4	CB4	XCPE4	YCPE4
47	21.46	-16.82	1.3582	0.0003	0.4722	0.0002	0.3476	1.4232	0.0116	0.3932	0.0081	0.2762
48	21.48	-17.69	1.3670	0.0075	0.4616	0.0055	0.3372	1.4445	0.0102	0.3991	0.0071	0.2763
49	21.48	-18.50	1.3869	0.0140	0.4594	0.0101	0.3312	1.4792	0.0088	0.4038	0.0060	0.2730
50	21.51	-19.36	1.4370	0.0152	0.4664	0.0106	0.3246	1.4887	0.0075	0.4108	0.0051	0.2759
51	21.52	-20.09	1.3857	0.0272	0.4438	0.0196	0.3202	1.5091	0.0066	0.4152	0.0044	0.2751

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	180	1.10	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	0.01	19.52	0.0209	0.2587	-4.0265	7.5638	-0.0200	0.2602	12.3799		
2	-0.01	19.17	0.0265	0.2319	-3.9900	7.5747	-0.0260	0.2496	8.7509		
3	0.0	18.38	-0.0702	0.4292	-3.8806	7.4976	0.0	0.2426	-6.1151		
4	0.01	17.61	0.0100	0.2080	-3.7650	7.3257	-0.0260	0.2540	20.8000		
5	0.0	16.74	0.0160	0.2486	-3.4675	7.0883	-0.0200	0.2672	15.5375		
6	0.02	15.94	-0.0289	0.2994	-3.4514	7.0257	-0.0100	0.2404	-10.3619		
7	0.02	15.23	-0.0543	0.3307	-3.0840	6.6693	-0.0080	0.2647	-6.0350		
8	0.0	14.46	-0.0099	0.2278	-3.0604	6.5783	-0.0060	0.2352	-23.0161		
9	0.0	13.59	-0.0308	0.3281	-2.9279	6.3478	0.0030	0.2371	-10.6532		
10	-0.02	12.88	-0.0600	0.3270	-2.6366	5.9879	0.0110	0.2560	-5.4500		
11	0.01	12.10	-0.0234	0.2777	-2.5710	5.8151	0.0110	0.2422	-11.8701		
12	0.02	11.41	-0.0298	0.2657	-2.3088	5.4640	0.0090	0.2550	-8.9168		
13	-0.02	10.52	-0.0397	0.3085	-2.2379	5.2268	0.0150	0.2546	-7.7728		
14	-0.02	9.81	-0.0230	0.1802	-1.9559	4.8270	0.0170	0.2608	-7.8348		
15	-0.01	8.99	-0.0650	0.2280	-1.8122	4.5048	0.0170	0.2741	-3.5077		
16	0.0	8.23	-0.0336	0.1870	-1.6876	4.1664	0.0150	0.2748	-5.5667		
17	0.0	7.39	-0.0173	0.1742	-1.4920	3.7646	0.0190	0.2624	-10.0705		
18	-0.01	6.58	-0.0035	0.1639	-1.4645	3.5571	0.0210	0.2599	-46.6285		
19	0.01	5.76	-0.0229	0.1520	-1.2030	3.1181	0.0170	0.2564	-6.6402		
20	-0.01	5.00	-0.0215	0.0861	-1.1364	2.7677	0.0160	0.2507	-4.0046		
21	0.0	4.20	0.0131	0.0936	-0.8518	2.2894	0.0130	0.2526	7.1496		
22	-0.01	3.42	-0.0155	0.1023	-0.6485	1.8708	0.0160	0.2703	-7.0552		
23	0.01	2.66	0.0111	0.0675	-0.5822	1.6320	0.0140	0.2589	6.0775		
24	-0.01	1.85	-0.0035	0.0949	-0.4584	1.2897	0.0130	0.2766	-27.1143		
25	0.01	1.13	0.0345	0.0467	-0.2285	0.7598	0.0160	0.2718	1.3536		
26	-0.01	0.39	0.0202	0.0267	-0.1605	0.5236	0.0140	0.2813	1.3228		
27	0.0	-0.41	0.0326	0.0354	-0.0413	0.2478	0.0130	0.2831	1.0847		
28	-0.03	-1.20	0.0249	0.0231	0.0511	-0.0675	0.0120	0.2728	0.9293		
29	-0.03	-2.02	0.0185	0.0341	0.1536	-0.3750	0.0150	0.2801	1.8432		
30	-0.01	-2.79	0.0263	0.0152	0.3463	-0.7671	0.0120	0.2837	0.5772		
31	-0.01	-3.66	0.0102	0.0517	0.4500	-1.0380	0.0140	0.2842	5.0706		
32	-0.01	-4.41	0.0213	0.0472	0.6078	-1.4429	0.0140	0.2871	2.2150		
33	-0.03	-5.18	0.0199	0.0481	0.8203	-1.7913	0.0120	0.2874	2.4191		
34	-0.01	-5.94	0.0111	0.0155	0.0445	-2.1462	0.0140	0.2840	0.7127		
35	0.0	-6.70	0.0140	0.0274	1.0791	-2.5285	0.0130	0.2928	1.9571		
36	0.0	-7.59	0.0295	0.0537	1.2168	-2.9304	0.0150	0.3139	1.8203		
37	0.0	-8.38	0.0194	0.0768	1.4171	-3.3128	0.0110	0.3225	1.3835		
38	0.01	-9.18	0.0364	0.0700	1.5304	-3.7044	0.0090	0.3162	2.1440		
39	-0.01	-9.94	0.0297	-0.0146	1.6761	-3.9893	0.0160	0.3159	-0.4909		
40	0.01	-10.71	0.0541	0.0183	1.8800	-4.3637	0.0110	0.3151	0.3375		
41	-0.01	-11.47	0.0154	-0.0226	1.9480	-4.6230	0.0120	0.3292	-1.4649		
42	-0.01	-12.24	0.0211	-0.0115	2.1273	-4.9940	0.0120	0.3268	-0.5469		
43	-0.03	-12.98	0.0197	0.0004	2.3649	-5.3386	0.0090	0.3119	0.0215		
44	-0.01	-13.71	0.0202	0.0097	2.6043	-5.6277	0.0070	0.3064	0.4812		
45	-0.01	-14.56	0.0166	-0.0222	2.8438	-5.8691	0.0040	0.3138	-1.3398		
46	-0.01	-15.45	0.0227	-0.0308	2.8247	-6.0943	-0.0020	0.3067	-1.3559		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PH1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 180 1.10 1.7 0.0 B2WOF12 0.0 0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	-0.03	-16.24	0.0353	-0.0594	3.0218	-6.4262	0.0020	0.3108	-1.6833
48	-0.02	-17.06	0.0296	-0.1114	3.2205	-6.6229	-0.0020	0.2444	-3.7644
49	-0.02	-17.85	-0.0069	0.0037	3.2487	-6.6979	-0.0010	0.3229	-0.5304
50	0.0	-18.75	-0.0065	0.0021	3.5171	-7.0457	-0.0100	0.3054	-0.3231
51	-0.01	-19.54	0.0289	-0.0505	3.8273	-7.2860	-0.0060	0.2930	-1.7460
52	0.0	-20.35	-0.0339	0.0874	4.0980	-7.3949	-0.0060	0.2918	-2.5799

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		180		1.10 1.7		0.0 BZMOF12		0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
1	0.01	19.52	-1.2094	0.0111	-0.3487	-0.0092	0.2883	-0.4477	0.0352	-0.2167	-0.0787	0.4840	
2	-0.01	19.17	-1.1673	0.0105	-0.3515	-0.0090	0.3014	-0.4350	0.0351	-0.2109	-0.0808	0.4849	
3	0.0	18.38	-1.1898	0.0096	-0.3447	-0.0081	0.2897	-0.4634	0.0349	-0.2182	-0.0754	0.4709	
4	0.01	17.61	-1.2052	0.0109	-0.3325	-0.0090	0.2759	-0.4151	0.0352	-0.2177	-0.0848	0.5244	
5	0.0	16.74	-1.1017	0.0099	-0.3344	-0.0090	0.3035	-0.4162	0.0355	-0.2200	-0.0853	0.5285	
6	0.02	15.94	-1.0434	0.0091	-0.3323	-0.0087	0.3185	-0.4172	0.0349	-0.2186	-0.0837	0.5240	
7	0.02	15.23	-1.0506	0.0087	-0.3125	-0.0083	0.2974	-0.4027	0.0350	-0.2214	-0.0869	0.5497	
8	0.0	14.46	-0.9925	0.0093	-0.3085	-0.0094	0.3109	-0.4132	0.0352	-0.2176	-0.0853	0.5265	
9	0.0	13.59	-0.9465	0.0083	-0.2995	-0.0088	0.3164	-0.4184	0.0352	-0.2173	-0.0841	0.5194	
10	-0.02	12.88	-0.9401	0.0091	-0.2836	-0.0097	0.3016	-0.4223	0.0352	-0.2238	-0.0833	0.5299	
11	0.01	12.10	-0.8599	0.0090	-0.2778	-0.0105	0.3231	-0.4154	0.0350	-0.2231	-0.0843	0.5371	
12	0.02	11.41	-0.8241	0.0090	-0.2674	-0.0110	0.3245	-0.4387	0.0350	-0.2173	-0.0797	0.4952	
13	-0.02	10.52	-0.8016	0.0092	-0.2516	-0.0115	0.3139	-0.4276	0.0352	-0.2225	-0.0823	0.5203	
14	-0.02	9.81	-0.7390	0.0093	-0.2382	-0.0126	0.3224	-0.4130	0.0349	-0.2209	-0.0845	0.5349	
15	-0.01	8.99	-0.6681	0.0089	-0.2328	-0.0134	0.3485	-0.4317	0.0348	-0.2219	-0.0806	0.5141	
16	0.0	8.23	-0.6285	0.0097	-0.2179	-0.0154	0.3467	-0.4228	0.0351	-0.2258	-0.0831	0.5340	
17	0.0	7.39	-0.5881	0.0084	-0.1930	-0.0144	0.3281	-0.4306	0.0350	-0.2260	-0.0812	0.5248	
18	-0.01	6.58	-0.4915	0.0083	-0.1846	-0.0169	0.3755	-0.4158	0.0352	-0.2252	-0.0846	0.5417	
19	0.01	5.76	-0.4648	0.0083	-0.1722	-0.0180	0.3704	-0.4357	0.0349	-0.2260	-0.0801	0.5186	
20	-0.01	5.00	-0.4257	0.0078	-0.1637	-0.0184	0.3374	-0.4266	0.0349	-0.2223	-0.0818	0.5212	
21	0.0	4.20	-0.3151	0.0078	-0.1356	-0.0247	0.4303	-0.4305	0.0349	-0.2223	-0.0812	0.5164	
22	-0.01	3.42	-0.2878	0.0076	-0.1078	-0.0266	0.3745	-0.4361	0.0351	-0.2255	-0.0806	0.5171	
23	0.01	2.66	-0.2174	0.0072	-0.1006	-0.0331	0.4629	-0.4237	0.0349	-0.2254	-0.0825	0.5319	
24	-0.01	1.85	-0.1595	0.0066	-0.0816	-0.0414	0.5119	-0.4374	0.0350	-0.2270	-0.0801	0.5190	
25	0.01	1.13	-0.0997	0.0053	-0.0541	-0.0537	0.5428	-0.4526	0.0349	-0.2230	-0.0772	0.4927	
26	-0.01	0.39	-0.0437	0.0036	-0.0429	-0.0835	0.9808	-0.4467	0.0349	-0.2278	-0.0781	0.5100	
27	0.0	-0.41	-0.0189	0.0035	-0.0184	-0.1852	0.9734	-0.4500	0.0350	-0.2252	-0.0777	0.5005	
28	-0.03	-1.20	-0.0160	0.0016	0.0027	0.0906	0.1707	-0.4521	0.0348	-0.2276	-0.0769	0.5035	
29	-0.03	-2.02	0.1140	0.0002	0.0146	0.0022	0.1280	-0.4717	0.0348	-0.2236	-0.0739	0.4740	
30	-0.01	-2.79	0.1419	-0.0016	0.0415	-0.0113	0.2923	-0.4510	0.0349	-0.2269	-0.0775	0.5030	
31	-0.01	-3.66	0.1836	-0.0033	0.0604	-0.0183	0.3289	-0.4590	0.0349	-0.2285	-0.0760	0.4979	
32	-0.01	-4.41	0.2360	-0.0051	0.0878	-0.0218	0.3722	-0.4506	0.0346	-0.2287	-0.0804	0.5310	
33	-0.03	-5.18	0.2579	-0.0061	0.1065	-0.0236	0.4146	-0.4489	0.0349	-0.2293	-0.0777	0.5107	
34	-0.01	-5.94	0.3246	-0.0069	0.1283	-0.0212	0.3751	-0.4370	0.0347	-0.2304	-0.0794	0.5272	
35	0.0	-6.70	0.3921	-0.0073	0.1474	-0.0186	0.3758	-0.4398	0.0345	-0.2314	-0.0785	0.5262	
36	0.0	-7.59	0.4582	-0.0083	0.1628	-0.0181	0.3553	-0.4472	0.0347	-0.2297	-0.0777	0.5136	
37	0.0	-8.38	0.5378	-0.0080	0.1735	-0.0151	0.3257	-0.4315	0.0347	-0.2331	-0.0805	0.5401	
38	0.01	-9.18	0.5982	-0.0101	0.1902	-0.0169	0.3180	-0.4186	0.0348	-0.2104	-0.0774	0.5254	
39	-0.01	-9.94	0.6180	-0.0104	0.2045	-0.0170	0.3119	-0.4394	0.0345	-0.2298	-0.0786	0.5230	
40	0.01	-10.71	0.6473	-0.0108	0.2119	-0.0156	0.3126	-0.4483	0.0350	-0.2312	-0.0780	0.5156	
41	-0.01	-11.47	0.7365	-0.0123	0.2352	-0.0167	0.3194	-0.4493	0.0350	-0.2311	-0.0779	0.5143	
42	-0.01	-12.24	0.7680	-0.0132	0.2535	-0.0172	0.3301	-0.4270	0.0351	-0.2303	-0.0823	0.5393	
43	-0.03	-12.98	0.8295	-0.0138	0.2613	-0.0167	0.3150	-0.4071	0.0353	-0.2342	-0.0867	0.5754	
44	-0.01	-13.71	0.8922	-0.0143	0.2709	-0.0161	0.3036	-0.4108	0.0347	-0.2331	-0.0846	0.5673	
45	-0.01	-14.56	0.9119	-0.0151	0.2816	-0.0166	0.3088	-0.4072	0.0344	-0.2272	-0.0844	0.5579	
46	-0.01	-15.45	0.9494	-0.0152	0.2941	-0.0161	0.3097	-0.3987	0.0345	-0.2281	-0.0866	0.5722	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	OEL2	OEL3	DEL4	TRANSITION		
6 180 1.10 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	-0.03	-16.24	0.9663	-0.0154	0.3085	-0.0160	0.3192	-0.3890	0.0346	-0.2259	-0.0889	0.5807	
48	-0.02	-17.06	1.0408	-0.0169	0.3092	-0.0162	0.2971	-0.4108	0.0341	-0.2173	-0.0831	0.5289	
49	-0.02	-17.85	1.0182	-0.0164	0.3288	-0.0161	0.3229	-0.4089	0.0336	-0.2208	-0.0821	0.5401	
50	0.0	-18.75	1.0722	-0.0181	0.3322	-0.0169	0.3098	-0.4186	0.0327	-0.2149	-0.0781	0.5133	
51	-0.01	-19.54	1.1348	-0.0186	0.3388	-0.0164	0.2986	-0.4246	0.0327	-0.2143	-0.0771	0.5046	
52	0.0	-20.35	1.1433	-0.0183	0.3447	-0.0160	0.3015	-0.4244	0.0317	-0.2140	-0.0747	0.5042	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	180	1.10	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPE3	YCPE3	CNF4	CH4	CB4	XCPE4	YCPE4
1	0.01	19.52	-0.9691	0.0036	-0.3875	-0.0038	0.3999	-0.0605	0.0023	-0.0119	-0.0388	0.1960
2	-0.01	19.17	-0.9326	0.0041	-0.3925	-0.0044	0.4208	-0.1096	0.0025	-0.0126	-0.0233	0.1151
3	0.0	18.38	-0.9343	0.0034	-0.3856	-0.0037	0.4127	-0.0144	0.0027	-0.0119	-0.1875	0.8263
4	0.01	17.61	-0.8973	0.0036	-0.3832	-0.0040	0.4270	-0.0745	0.0031	-0.0102	-0.0416	0.1372
5	0.0	16.74	-0.8801	0.0031	-0.3750	-0.0035	0.4260	-0.0680	-0.0023	-0.0150	0.0338	0.2200
6	0.02	15.94	-0.8364	0.0030	-0.3673	-0.0036	0.4391	-0.0938	-0.0024	-0.0020	0.0261	0.0208
7	0.02	15.23	-0.8086	0.0026	-0.3597	-0.0032	0.4449	-0.0767	-0.0041	-0.0039	0.0541	0.0503
8	0.0	14.46	-0.7830	0.0029	-0.3522	-0.0037	0.4498	-0.0602	-0.0051	-0.0040	0.0847	0.0658
9	0.0	13.59	-0.7321	0.0036	-0.3474	-0.0050	0.4746	-0.0779	-0.0059	0.0015	0.0757	-0.0198
10	-0.02	12.88	-0.7491	0.0021	-0.3268	-0.0029	0.4363	-0.0308	-0.0068	-0.0015	0.2224	0.0475
11	0.01	12.10	-0.6745	0.0017	-0.3203	-0.0025	0.4749	-0.0265	-0.0067	0.0074	0.2528	-0.2781
12	0.02	11.41	-0.6407	0.0016	-0.3074	-0.0025	0.4798	-0.0216	-0.0067	0.0009	0.3124	-0.0418
13	-0.02	10.52	-0.5978	0.0007	-0.2997	-0.0013	0.5013	-0.0260	-0.0054	0.0037	0.2096	-0.1437
14	-0.02	9.81	-0.5528	0.0006	-0.2827	-0.0011	0.5114	-0.0342	-0.0060	0.0111	0.1754	-0.3247
15	-0.01	8.99	-0.5109	0.0000	-0.2705	-0.0001	0.5295	-0.0554	-0.0049	0.0153	0.0884	-0.2769
16	0.0	8.23	-0.4528	-0.0009	-0.2545	0.0020	0.5620	-0.0184	-0.0041	0.0117	0.2255	-0.3342
17	0.0	7.39	-0.4195	-0.0011	-0.2281	0.0027	0.5437	-0.0320	-0.0038	0.0131	0.1203	-0.4105
18	-0.01	6.58	-0.3547	-0.0013	-0.2181	0.0038	0.6148	-0.0117	-0.0031	0.0107	0.2649	-0.9146
19	0.01	5.76	-0.3060	-0.0010	-0.1968	0.0033	0.6429	-0.0329	-0.0026	0.0161	0.0805	-0.4905
20	-0.01	5.00	-0.2674	-0.0011	-0.1752	0.0043	0.6552	-0.0406	-0.0026	0.0205	0.0653	-0.5042
21	0.0	4.20	-0.1983	-0.0008	-0.1551	0.0043	0.8027	-0.0055	-0.0030	0.0124	0.5544	-2.2486
22	-0.01	3.42	-0.1882	-0.0008	-0.1291	0.0045	0.6360	-0.0118	-0.0028	0.0108	0.2372	-0.9125
23	0.01	2.66	-0.1302	-0.0011	-0.1134	0.0088	0.8708	-0.0090	-0.0032	0.0134	0.3555	-1.4890
24	-0.01	1.85	-0.1029	-0.0011	-0.0873	0.0107	0.8483	-0.0077	-0.0022	0.0068	0.2922	-0.8876
25	0.01	1.13	-0.0417	-0.0019	-0.0667	0.0456	1.5494	-0.0330	-0.0023	0.0161	0.0712	-0.4880
26	-0.01	0.39	-0.0233	-0.0037	-0.0366	0.1588	1.5693	0.0086	-0.0027	0.0084	-0.3197	0.9728
27	0.0	-0.41	0.0456	-0.0044	-0.0254	-0.0576	-0.5571	0.0116	-0.0030	0.0099	-0.2629	0.8505
28	-0.03	-1.20	0.0993	-0.0054	-0.0038	-0.0544	-0.0384	-0.0260	-0.0032	0.0153	0.1231	-0.5899
29	-0.03	-2.02	0.1028	-0.0054	0.0248	-0.0525	-0.2418	-0.0420	-0.0030	0.0136	0.0726	-0.3239
30	-0.01	-2.79	0.1480	-0.0049	0.0404	-0.0334	0.2731	-0.0117	-0.0031	0.0107	0.2649	-0.9146
31	-0.01	-3.66	0.1807	-0.0047	0.0669	-0.0260	0.3703	-0.0045	-0.0023	0.0075	0.5221	-1.6668
32	-0.01	-4.41	0.2570	-0.0048	0.0850	-0.0187	0.3309	-0.0205	-0.0037	0.0071	0.1805	-0.3448
33	-0.03	-5.18	0.3260	-0.0047	0.1020	-0.0144	0.3130	-0.0100	-0.0037	0.0036	-0.3699	0.3632
34	-0.01	-5.94	0.3206	-0.0035	0.1355	-0.0109	0.4227	-0.0280	-0.0030	0.0098	0.1089	-0.3489
35	0.0	-6.70	0.3952	-0.0023	0.1473	-0.0059	0.3727	-0.0280	-0.0030	0.0098	0.1089	-0.3489
36	0.0	-7.59	0.4508	-0.0016	0.1686	-0.0037	0.3740	-0.0240	-0.0031	0.0069	0.1312	-0.2876
37	0.0	-8.38	0.4696	-0.0010	0.1907	-0.0021	0.4060	-0.0089	-0.0030	-0.0007	0.3426	0.0748
38	0.01	-9.18	0.5233	-0.0000	0.2109	-0.0001	0.4030	-0.0074	-0.0030	-0.0001	-0.4121	-0.0181
39	-0.01	-9.94	0.5587	-0.0001	0.2220	-0.0003	0.3973	-0.0138	-0.0030	0.0058	0.2210	-0.4204
40	0.01	-10.71	0.6597	0.0009	0.2322	0.0014	0.3520	-0.0196	-0.0022	0.0018	0.1148	-0.0903
41	-0.01	-11.47	0.6665	0.0010	0.2444	0.0015	0.3742	-0.0340	-0.0030	0.0081	0.0897	-0.2374
42	-0.01	-12.24	0.7261	0.0026	0.2649	0.0037	0.3658	-0.0192	-0.0037	0.0018	0.1927	-0.0939
43	-0.03	-12.98	0.7611	0.0021	0.2754	0.0028	0.3619	-0.0080	-0.0029	-0.0026	-0.3687	-0.3293
44	-0.01	-13.71	0.7505	0.0024	0.2864	0.0032	0.3449	-0.0109	-0.0029	-0.0056	0.2660	0.3167
45	-0.01	-14.56	0.7924	0.0031	0.3043	0.0039	0.3841	-0.0124	-0.0023	-0.0002	0.1855	0.0187
46	-0.01	-15.45	0.8549	0.0042	0.3132	0.0049	0.3666	-0.0110	-0.0021	-0.0019	0.0798	0.1268

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 180 1.10 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	-0.03	-16.24	0.8999	0.0050	0.3165	0.0056	0.3517	-0.0211	-0.0021	-0.0044	0.1019	0.2100
48	-0.02	-17.06	0.9350	0.0044	0.3218	0.0047	0.3441	-0.0594	-0.0030	0.0052	0.0513	-0.0877
49	-0.02	-17.65	0.9701	0.0048	0.3336	0.0050	0.3438	-0.0713	-0.0031	0.0001	0.0435	-0.0020
50	0.0	-18.75	0.9932	0.0038	0.3490	0.0039	0.3513	-0.0763	-0.0027	0.0066	0.0360	-0.0862
51	-0.01	-19.54	1.0089	0.0035	0.3595	0.0035	0.3563	-0.0654	-0.0031	0.0030	0.0474	-0.0460
52	0.0	-20.35	1.0602	0.0032	0.3627	0.0030	0.3421	-0.0615	-0.0034	0.0002	0.0553	-0.0034

PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	181	1.10	1.7	0.0	82M0F14	0.0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
1	3.12	19.76	0.2224	0.6456	-4.0234	7.4495	-0.1400	0.2544	2.9031	
2	3.08	19.78	0.2699	0.4721	-3.4698	7.3965	-0.1450	0.2599	1.7493	
3	3.11	18.99	0.2312	0.5542	-3.8563	7.2916	-0.1420	0.2525	2.4192	
4	3.09	18.23	0.2658	0.3678	-3.7852	7.2740	-0.1330	0.2366	1.3840	
5	3.09	17.43	0.2578	0.4280	-3.6438	7.2311	-0.1110	0.2383	1.6605	
6	3.10	16.61	0.2702	0.2957	-3.5346	7.1112	-0.1080	0.2499	1.0944	
7	3.09	15.85	0.2477	0.2222	-3.3488	6.9190	-0.0850	0.2495	0.8971	
8	3.09	15.03	0.2747	0.1814	-3.1328	6.6166	-0.0520	0.2495	0.6604	
9	3.07	14.38	0.3064	0.0280	-2.9553	6.4641	-0.0530	0.2572	0.0915	
10	3.06	13.57	0.3235	-0.0379	-2.8671	6.2707	-0.0340	0.2564	-0.1172	
11	3.06	12.82	0.3319	-0.1416	-2.6164	5.8902	-0.0200	0.2616	-0.4268	
12	3.09	12.05	0.3312	-0.1487	-2.5137	5.6829	-0.0130	0.2459	-0.4489	
13	3.04	11.33	0.3532	-0.3834	-2.2686	5.3108	0.0030	0.2565	-1.0657	
14	3.05	10.55	0.3714	-0.4509	-2.1254	5.0573	0.0190	0.2551	-1.2142	
15	3.04	9.70	0.3966	-0.5793	-1.9934	4.7396	0.0230	0.2576	-1.4605	
16	3.03	8.93	0.4396	-0.6975	-1.7367	4.2911	0.0190	0.2678	-1.5865	
17	3.06	8.12	0.4281	-0.7954	-1.7024	4.1261	0.0210	0.2630	-1.8577	
18	3.04	7.34	0.4457	-0.8310	-1.4827	3.7226	0.0230	0.2643	-1.8643	
19	3.02	6.56	0.4908	-0.9931	-1.3437	3.3180	0.0230	0.2541	-2.0233	
20	3.04	5.78	0.4685	-0.9859	-1.1870	3.0307	0.0240	0.2628	-2.1042	
21	3.03	4.93	0.5027	-1.0658	-0.9677	2.6386	0.0160	0.2723	-2.1200	
22	3.01	4.16	0.4904	-1.1296	-0.9052	2.3011	0.0180	0.2655	-2.3032	
23	3.04	3.45	0.4913	-1.1418	-0.7143	1.9249	0.0130	0.2654	-2.3239	
24	3.01	2.65	0.5463	-1.2198	-0.6046	1.5074	0.0160	0.2533	-2.2327	
25	3.02	1.88	0.5130	-1.2272	-0.5634	1.2607	0.0150	0.2570	-2.3920	
26	3.00	1.12	0.5199	-1.2278	-0.3053	0.8453	0.0140	0.2623	-2.3615	
27	3.01	0.36	0.5419	-1.2986	-0.1835	0.5458	0.0140	0.2589	-2.3963	
28	3.02	-0.41	0.5112	-1.2347	-0.0666	0.2594	0.0210	0.2629	-2.4246	
29	3.00	-1.18	0.5468	-1.2935	0.0692	-0.0819	0.0100	0.2810	-2.3654	
30	3.03	-1.97	0.5382	-1.2305	0.3051	-0.4981	0.0130	0.2891	-2.2861	
31	3.03	-2.80	0.5391	-1.1987	0.2778	-0.6588	0.0150	0.2811	-2.2734	
32	3.01	-3.63	0.5609	-1.2782	0.4271	-1.0179	0.0130	0.2853	-2.2708	
33	3.03	-4.43	0.5471	-1.2079	0.6351	-1.4161	0.0100	0.2914	-2.2077	
34	3.02	-5.17	0.4905	-1.1057	0.8160	-1.9123	0.0160	0.3013	-2.2541	
35	3.02	-5.89	0.5006	-1.1388	0.8253	-2.0263	0.0170	0.3039	-2.2748	
36	3.04	-6.70	0.5041	-1.0440	1.0234	-2.4676	0.0150	0.3172	-2.0701	
37	3.03	-7.53	0.4629	-0.9801	1.2332	-2.8744	0.0120	0.3021	-2.1171	
38	3.04	-8.31	0.4728	-0.9249	1.2805	-3.1116	0.0130	0.3228	-1.9667	
39	3.04	-9.10	0.4608	-0.8671	1.5033	-3.5974	0.0130	0.3106	-1.8817	
40	3.03	-9.94	0.4382	-0.8065	1.7565	-3.9959	0.0100	0.2945	-1.8403	
41	3.03	-10.67	0.4204	-0.6888	1.7185	-4.1746	0.0110	0.3230	-1.6331	
42	3.05	-11.42	0.4227	-0.6968	1.9573	-4.6110	0.0130	0.3102	-1.6483	
43	3.05	-12.17	0.3808	-0.5430	2.0964	-4.9047	0.0130	0.3129	-1.4263	
44	3.05	-12.90	0.3612	-0.5086	2.2546	-5.2102	0.0230	0.3181	-1.4043	
45	3.06	-13.71	0.3643	-0.4010	2.5122	-5.6118	0.0210	0.2997	-1.1008	
46	3.06	-14.48	0.3385	-0.2309	2.6753	-5.9062	0.0320	0.3172	-0.6821	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		181		1.10		1.7		0.0	82WUF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP						
47	3.10	-15.37	0.3326	-0.1226	2.8388	-6.1631	0.0490	0.3179	-0.3687						
48	3.08	-16.10	0.3063	-0.0128	3.0512	-6.4224	0.0650	0.3032	-0.0419						
49	3.07	-16.96	0.3176	0.0194	3.2550	-6.6497	0.0920	0.2987	0.0610						
50	3.09	-17.81	0.3286	-0.0363	3.4026	-6.8793	0.1010	0.2875	-0.1105						
51	3.11	-18.65	0.2989	0.0925	3.6239	-7.3202	0.0910	0.2837	0.3096						
52	3.09	-19.50	0.2757	0.2230	3.7388	-7.3861	0.1000	0.2971	0.8089						
53	3.09	-20.28	0.1857	0.3630	3.8977	-7.6145	0.0980	0.2983	1.9549						
54	3.10	-20.60	0.3418	0.1545	4.0801	-7.7028	0.1490	0.2761	0.4520						

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												
6 181 1.10 1.7 0.0 82WUF12 0.0 0 0 0 0 0 FIXED												
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	3.12	19.76	-1.0381	0.0092	-0.3043	-0.0089	0.2932	-0.1294	0.0348	-0.1438	-0.2689	1.1114
2	3.08	19.78	-1.0385	0.0083	-0.3044	-0.0080	0.2931	-0.1117	0.0347	-0.1386	-0.3106	1.2410
3	3.11	18.99	-1.0165	0.0083	-0.3034	-0.0082	0.2985	-0.1229	0.0348	-0.1370	-0.2835	1.1152
4	3.09	18.23	-1.0009	0.0071	-0.3023	-0.0071	0.3020	-0.1291	0.0352	-0.1376	-0.2730	1.0660
5	3.09	17.43	-0.9969	0.0069	-0.2952	-0.0070	0.2961	-0.1252	0.0353	-0.1413	-0.2823	1.1287
6	3.10	16.61	-0.9744	0.0070	-0.2898	-0.0072	0.2974	-0.1199	0.0356	-0.1419	-0.2969	1.1839
7	3.09	15.85	-0.9385	0.0061	-0.2840	-0.0066	0.3026	-0.1466	0.0354	-0.1445	-0.2418	0.9860
8	3.09	15.03	-0.8977	0.0071	-0.2739	-0.0079	0.3051	-0.1538	0.0360	-0.1452	-0.2340	0.9444
9	3.07	14.38	-0.8505	0.0073	-0.2702	-0.0086	0.3177	-0.1296	0.0358	-0.1415	-0.2766	1.0917
10	3.06	13.57	-0.8168	0.0085	-0.2629	-0.0104	0.3218	-0.1474	0.0359	-0.1435	-0.2435	0.9736
11	3.06	12.82	-0.7787	0.0089	-0.2515	-0.0114	0.3235	-0.1460	0.0360	-0.1455	-0.2469	0.9969
12	3.09	12.05	-0.7390	0.0092	-0.2461	-0.0125	0.3331	-0.1748	0.0359	-0.1458	-0.2056	0.8344
13	3.04	11.33	-0.6828	0.0101	-0.2367	-0.0148	0.3467	-0.1478	0.0356	-0.1468	-0.2408	0.9936
14	3.05	10.55	-0.6628	0.0111	-0.2225	-0.0168	0.3364	-0.1482	0.0358	-0.1512	-0.2415	1.0201
15	3.04	9.70	-0.6205	0.0122	-0.2119	-0.0197	0.3414	-0.1641	0.0354	-0.1495	-0.2145	0.9109
16	3.03	8.93	-0.5871	0.0126	-0.2040	-0.0215	0.3475	-0.1754	0.0352	-0.1506	-0.2009	0.8589
17	3.06	8.12	-0.5459	0.0124	-0.1892	-0.0228	0.3466	-0.1738	0.0353	-0.1480	-0.2031	0.8516
18	3.04	7.34	-0.5195	0.0128	-0.1766	-0.0246	0.3400	-0.1462	0.0347	-0.1550	-0.2373	1.0603
19	3.02	6.56	-0.4826	0.0117	-0.1577	-0.0243	0.3268	-0.1653	0.0342	-0.1488	-0.2069	0.9001
20	3.04	5.78	-0.4301	0.0111	-0.1480	-0.0258	0.3441	-0.1763	0.0343	-0.1564	-0.1948	0.8874
21	3.03	4.93	-0.3756	0.0106	-0.1316	-0.0283	0.3502	-0.1739	0.0343	-0.1566	-0.1975	0.9008
22	3.01	4.16	-0.3415	0.0101	-0.1123	-0.0296	0.3288	-0.1843	0.0338	-0.1544	-0.1836	0.8378
23	3.04	3.45	-0.2498	0.0097	-0.1076	-0.0388	0.4309	-0.1824	0.0338	-0.1590	-0.1855	0.8721
24	3.01	2.65	-0.1906	0.0085	-0.0859	-0.0449	0.4507	-0.1703	0.0338	-0.1617	-0.1987	0.9498
25	3.02	1.88	-0.1439	0.0083	-0.0746	-0.0577	0.5188	-0.1924	0.0338	-0.1623	-0.1756	0.8436
26	3.00	1.12	-0.1162	0.0064	-0.0504	-0.0551	0.4339	-0.2024	0.0337	-0.1617	-0.1667	0.7991
27	3.01	0.36	-0.0439	0.0047	-0.0404	-0.1070	0.9209	-0.2049	0.0336	-0.1619	-0.1640	0.7905
28	3.02	-0.41	-0.0301	0.0019	-0.0114	-0.0648	0.3797	-0.2147	0.0337	-0.1651	-0.1569	0.7692
29	3.00	-1.18	0.0200	0.0005	-0.0034	0.0250	-0.1718	-0.2073	0.0331	-0.1678	-0.1599	0.8098
30	3.03	-1.97	0.0742	-0.0014	0.0198	-0.0189	0.2672	-0.2150	0.0334	-0.1705	-0.1553	0.7932
31	3.03	-2.80	0.0820	-0.0040	0.0471	-0.0494	0.5747	-0.2406	0.0331	-0.1713	-0.1375	0.7123
32	3.01	-3.63	0.1575	-0.0057	0.0594	-0.0365	0.3770	-0.2175	0.0326	-0.1748	-0.1499	0.8040
33	3.03	-4.43	0.2161	-0.0076	0.0766	-0.0354	0.3545	-0.2367	0.0324	-0.1742	-0.1371	0.7363
34	3.02	-5.17	0.2770	-0.0086	0.0942	-0.0310	0.3401	-0.2554	0.0318	-0.1774	-0.1245	0.6946
35	3.02	-5.89	0.3266	-0.0102	0.1029	-0.0312	0.3152	-0.2500	0.0311	-0.1814	-0.1246	0.7336
36	3.04	-6.70	0.3783	-0.0106	0.1262	-0.0281	0.3335	-0.2749	0.0299	-0.1856	-0.1089	0.6750
37	3.05	-7.53	0.4310	-0.0109	0.1485	-0.0287	0.3896	-0.2849	0.0291	-0.1852	-0.1021	0.6501
38	3.04	-8.31	0.4430	-0.0116	0.1590	-0.0262	0.3589	-0.3072	0.0282	-0.1893	-0.0919	0.6160
39	3.04	-9.10	0.4834	-0.0134	0.1723	-0.0277	0.3564	-0.3184	0.0270	-0.1919	-0.0848	0.6026
40	3.05	-9.94	0.5426	-0.0142	0.1872	-0.0263	0.3450	-0.3471	0.0258	-0.2002	-0.0744	0.5766
41	3.05	-10.67	0.5441	-0.0148	0.2002	-0.0273	0.3679	-0.3314	0.0248	-0.2041	-0.0749	0.6159
42	3.05	-11.42	0.6429	-0.0155	0.2002	-0.0242	0.3114	-0.3500	0.0237	-0.2070	-0.0677	0.5914
43	3.05	-12.17	0.6253	-0.0150	0.2238	-0.0241	0.3578	-0.3755	0.0225	-0.2145	-0.0599	0.5712
44	3.05	-12.90	0.6708	-0.0154	0.2305	-0.0230	0.3436	-0.3837	0.0225	-0.2227	-0.0587	0.5803
45	3.06	-13.71	0.7397	-0.0157	0.2402	-0.0212	0.3247	-0.3984	0.0215	-0.2249	-0.0539	0.5646
46	3.06	-14.48	0.7508	-0.0149	0.2528	-0.0198	0.3367	-0.4206	0.0213	-0.2385	-0.0507	0.5671

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6	181	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	3.10	-15.37	0.8353	-0.0145	0.2519	-0.0174	0.3015	-0.4780	0.0215	-0.2466	-0.0451	0.5158
48	3.08	-16.10	0.8589	-0.0147	0.2655	-0.0172	0.3091	-0.4862	0.0211	-0.2549	-0.0435	0.5242
49	3.07	-16.96	0.8649	-0.0144	0.2791	-0.0166	0.3227	-0.5783	0.0226	-0.2636	-0.0391	0.4558
50	3.09	-17.81	0.8811	-0.0144	0.2922	-0.0163	0.3316	-0.5524	0.0227	-0.2686	-0.0411	0.4862
51	3.11	-18.65	0.9516	-0.0150	0.2517	-0.0158	0.3065	-0.5287	0.0212	-0.2727	-0.0402	0.5157
52	3.09	-19.50	0.9689	-0.0159	0.3033	-0.0164	0.3130	-0.5897	0.0227	-0.2795	-0.0385	0.4739
53	3.09	-20.28	0.9921	-0.0154	0.3042	-0.0156	0.3066	-0.5905	0.0213	-0.2833	-0.0361	0.4798
54	3.10	-20.60	1.0321	-0.0164	0.3173	-0.0159	0.3074	-0.6702	0.0261	-0.2895	-0.0390	0.4320

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CNFF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 181 1.10 1.7			0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	3.12	19.76	-1.0362	0.0072	-0.4240	-0.0069	0.4092	-0.3036	-0.0172	-0.0742	0.0568	0.2443
2	3.08	19.78	-1.0443	0.0070	-0.4274	-0.0067	0.4092	-0.2873	-0.0185	-0.0732	0.0644	0.2546
3	3.11	18.99	-1.0828	0.0067	-0.4120	-0.0062	0.3805	-0.2855	-0.0180	-0.0712	0.0632	0.2702
4	3.09	18.23	-1.0281	0.0064	-0.4158	-0.0062	0.4044	-0.2580	-0.0225	-0.0662	0.0872	0.2565
5	3.09	17.43	-1.0345	0.0071	-0.4118	-0.0069	0.3981	-0.2715	-0.0286	-0.0508	0.1053	0.1870
6	3.10	16.61	-1.0035	0.0070	-0.4088	-0.0070	0.4073	-0.1954	-0.0340	-0.0470	0.1742	0.2406
7	3.09	15.85	-0.9755	0.0095	-0.4021	-0.0098	0.4122	-0.2011	-0.0347	-0.0357	0.1725	0.1776
8	3.09	15.03	-0.8955	0.0086	-0.3982	-0.0097	0.4446	-0.1831	-0.0399	-0.0114	0.2179	0.0623
9	3.07	14.38	-0.9205	0.0076	-0.3805	-0.0083	0.4134	-0.1517	-0.0409	-0.0056	0.2699	0.0372
10	3.06	13.57	-0.8871	0.0067	-0.3684	-0.0075	0.4158	-0.1058	-0.0442	0.0077	0.4182	-0.0732
11	3.06	12.82	-0.8234	0.0065	-0.3627	-0.0080	0.4404	-0.0450	-0.0428	0.0118	0.9509	-0.2623
12	3.09	12.05	-0.8105	0.0054	-0.3450	-0.0067	0.4257	-0.0745	-0.0425	0.0257	0.5710	-0.3446
13	3.04	11.33	-0.7307	0.0037	-0.3326	-0.0051	0.4551	-0.0635	-0.0429	0.0477	0.6755	-0.7518
14	3.05	10.55	-0.6917	0.0026	-0.3191	-0.0038	0.4613	0.0018	-0.0407	0.0494	-22.6071	27.4443
15	3.04	9.70	-0.6489	0.0021	-0.2993	-0.0033	0.4613	0.0495	-0.0379	0.0536	-0.7655	1.0827
16	3.03	8.93	-0.5938	0.0006	-0.2816	-0.0011	0.4743	0.0985	-0.0344	0.0525	-0.3497	0.5332
17	3.06	8.12	-0.5320	-0.0001	-0.2707	0.0002	0.5087	0.0963	-0.0296	0.0574	-0.3078	0.5959
18	3.04	7.34	-0.4894	-0.0005	-0.2445	0.0010	0.5097	0.1066	-0.0236	0.0626	-0.2406	0.5874
19	3.02	6.56	-0.4534	-0.0008	-0.2174	0.0018	0.4794	0.1014	-0.0215	0.0784	-0.2125	0.7731
20	3.04	5.78	-0.3899	-0.0003	-0.2026	0.0024	0.5196	0.1121	-0.0190	0.0753	-0.1699	0.6722
21	3.03	4.93	-0.3077	-0.0001	-0.1866	0.0003	0.6064	0.1231	-0.0139	0.0798	-0.1133	0.6484
22	3.01	4.16	-0.2705	-0.0011	-0.1580	0.0043	0.5842	0.1593	-0.0128	0.0744	-0.0803	0.4669
23	3.04	3.45	-0.2503	-0.0011	-0.1251	0.0044	0.4998	0.1343	-0.0103	0.0814	-0.0767	0.6065
24	3.01	2.65	-0.1864	-0.0015	-0.1068	0.0080	0.5730	0.1395	-0.0091	0.0843	-0.0652	0.6400
25	3.02	1.88	-0.1028	-0.0024	-0.0875	0.0238	0.8517	0.1870	-0.0085	0.0819	-0.0457	0.4380
26	3.00	1.12	-0.0545	-0.0019	-0.0656	0.0349	1.2048	0.1346	-0.0066	0.0919	-0.0494	0.6831
27	3.01	0.30	-0.0035	-0.0034	-0.0448	0.9855	12.7904	0.1816	-0.0059	0.0877	-0.0328	0.4830
28	3.02	-0.41	0.0492	-0.0039	-0.0263	-0.0803	-0.5347	0.2047	-0.0064	0.0898	-0.0315	0.4387
29	3.00	-1.18	0.0756	-0.0046	0.0054	-0.0608	0.0713	0.1655	-0.0050	0.0966	-0.0302	0.5719
30	3.03	-1.97	0.1354	-0.0044	0.0290	-0.0325	0.2143	0.2009	-0.0044	0.0908	-0.0244	0.4522
31	3.03	-2.60	0.1515	-0.0035	0.0516	-0.0231	0.3425	0.1904	-0.0045	0.0912	-0.0236	0.4792
32	3.01	-3.63	0.2014	-0.0034	0.0815	-0.0196	0.4047	0.1787	-0.0046	0.0997	-0.0260	0.5582
33	3.03	-4.43	0.2972	-0.0029	0.0955	-0.0094	0.3214	0.1801	-0.0039	0.0938	-0.0219	0.5209
34	3.02	-5.17	0.3456	-0.0020	0.1151	-0.0058	0.3329	0.1936	-0.0048	0.0914	-0.0250	0.4722
35	3.02	-5.89	0.3918	-0.0016	0.1392	-0.0041	0.3552	0.2129	-0.0046	0.0914	-0.0216	0.4319
36	3.04	-6.70	0.4624	-0.0004	0.1617	-0.0009	0.3496	0.2028	-0.0031	0.0933	-0.0155	0.4599
37	3.05	-7.53	0.4703	0.0004	0.1848	0.0010	0.4036	0.2044	-0.0035	0.0867	-0.0171	0.4242
38	3.04	-8.31	0.5441	0.0015	0.2098	0.0028	0.3856	0.1963	-0.0037	0.0915	-0.0188	0.4662
39	3.04	-9.10	0.5794	0.0013	0.2287	0.0022	0.3946	0.2043	-0.0030	0.0867	-0.0147	0.4243
40	3.05	-9.94	0.6775	0.0019	0.2454	0.0028	0.3623	0.1651	-0.0014	0.0977	-0.0085	0.5918
41	3.05	-10.67	0.7145	0.0011	0.2598	0.0016	0.3636	0.2044	-0.0022	0.0868	-0.0108	0.4247
42	3.05	-11.42	0.7661	0.0015	0.2775	0.0020	0.3627	0.2128	-0.0007	0.0891	-0.0035	0.4187
43	3.05	-12.17	0.7919	0.0019	0.2992	0.0024	0.3778	0.2047	-0.0012	0.0876	-0.0057	0.4176
44	3.05	-12.90	0.8210	0.0020	0.3202	0.0024	0.3901	0.1786	-0.0013	0.0960	-0.0073	0.5376
45	3.06	-13.71	0.9153	0.0017	0.3254	0.0019	0.3555	0.1912	-0.0013	0.0874	-0.0068	0.4572
46	3.06	-14.48	0.9234	0.0006	0.3439	0.0006	0.3724	0.1762	-0.0012	0.0915	-0.0068	0.5194

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART		MACH	XX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		181	1.10	1.7	0.0	B2WUF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	3.10	-15.37	0.9546	0.0007	0.3598	0.0008	0.3769	0.2039	-0.0018	0.0900	-0.0091	0.4416
48	3.08	-16.10	1.0248	0.0013	0.3623	0.0013	0.3535	0.1896	-0.0017	0.0919	-0.0092	0.4846
49	3.07	-16.96	1.0246	0.0	0.3730	0.0	0.3640	0.2034	-0.0009	0.0899	-0.0047	0.4419
50	3.09	-17.81	1.0660	0.0006	0.3765	0.0006	0.3536	0.2027	-0.0016	0.0861	-0.0081	0.4250
51	3.11	-18.65	1.1160	0.0013	0.3870	0.0012	0.3467	0.1982	-0.0035	0.0851	-0.0179	0.4296
52	3.09	-19.50	1.1617	0.0026	0.3502	0.0023	0.3359	0.1864	-0.0025	0.0978	-0.0135	0.5190
53	3.09	-20.28	1.1806	0.0029	0.4046	0.0025	0.3427	0.2118	-0.0043	0.0848	-0.0203	0.4003
54	3.10	-20.60	1.1752	0.0028	0.4036	0.0024	0.3434	0.1744	-0.0037	0.1030	-0.0215	0.5907

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	182	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	6.16	19.76	0.8081	-0.4314	-3.8778	7.2777	-0.1670	0.2216	-0.5339		
2	6.14	19.32	0.7969	-0.4927	-3.8805	7.1875	-0.1460	0.2206	-0.6183		
3	6.14	18.54	0.7962	-0.4668	-3.9483	7.0954	-0.1570	0.2296	-0.5862		
4	6.13	17.84	0.8017	-0.5864	-3.7379	7.1318	-0.1570	0.2141	-0.7315		
5	6.14	17.00	0.8431	-0.6874	-3.5590	6.9434	-0.1410	0.2191	-0.8153		
6	6.12	16.26	0.8563	-0.7989	-3.4271	6.7886	-0.1210	0.2127	-0.9329		
7	6.10	15.44	0.9058	-1.0891	-3.2224	6.6111	-0.1000	0.2201	-1.2024		
8	6.12	14.67	0.9217	-1.1834	-3.1170	6.3525	-0.0980	0.2246	-1.2639		
9	6.09	13.97	0.9442	-1.3648	-2.9154	6.2023	-0.0720	0.2227	-1.4455		
10	6.09	13.20	0.9250	-1.2740	-2.7319	5.8295	-0.0480	0.2388	-1.3773		
11	6.08	12.43	0.9135	-1.5178	-2.5050	5.6127	-0.0280	0.2356	-1.6616		
12	6.05	11.69	0.8941	-1.5057	-2.3345	5.2630	-0.0100	0.2563	-1.6841		
13	6.04	10.89	0.9044	-1.6491	-2.2089	4.9842	-0.0020	0.2444	-1.6234		
14	6.03	10.13	0.9638	-1.8392	-1.9657	4.6048	0.0340	0.2500	-1.9033		
15	6.07	9.29	1.0000	-1.9139	-1.8858	4.3198	0.0100	0.2533	-1.9139		
16	6.04	8.57	0.9422	-1.9180	-1.7350	4.0268	0.0100	0.2594	-2.0357		
17	6.03	7.71	0.9985	-2.1158	-1.6026	3.7384	0.0170	0.2577	-2.1190		
18	6.01	6.93	1.0264	-2.2358	-1.3939	3.3553	0.0150	0.2662	-2.1784		
19	6.04	6.10	0.9851	-2.2270	-1.2199	2.9407	0.0190	0.2614	-2.2607		
20	6.01	5.35	1.0558	-2.3240	-1.1246	2.6402	0.0180	0.2712	-2.2012		
21	6.01	4.54	1.0544	-2.4830	-0.8977	2.2686	0.0170	0.2732	-2.3550		
22	6.00	3.73	1.0727	-2.4416	-0.7955	1.8876	0.0200	0.2789	-2.2762		
23	6.02	3.01	1.0634	-2.4986	-0.7148	1.6316	0.0170	0.2741	-2.3497		
24	6.01	2.28	1.0743	-2.5558	-0.4605	1.1437	0.0130	0.2645	-2.3792		
25	6.02	1.47	1.0606	-2.5626	-0.4358	0.9611	0.0140	0.2756	-2.4163		
26	6.03	0.73	1.0906	-2.5736	-0.2528	0.6366	0.0150	0.2801	-2.3599		
27	6.01	0.02	1.0662	-2.5325	-0.1581	0.3943	0.0150	0.2911	-2.3753		
28	6.02	-0.77	1.0825	-2.6263	0.0853	0.0416	0.0160	0.2836	-2.4262		
29	6.03	-1.58	1.0729	-2.5949	0.1089	-0.1154	0.0140	0.2834	-2.4224		
30	6.01	-2.43	1.0729	-2.5479	0.2073	-0.3612	0.0160	0.2738	-2.3748		
31	6.01	-3.19	1.0665	-2.5599	0.3622	-0.6810	0.0160	0.2911	-2.4004		
32	6.03	-4.00	1.0602	-2.5291	0.4725	-1.0145	0.0190	0.2866	-2.3856		
33	6.02	-4.79	1.0266	-2.4251	0.5807	-1.3369	0.0170	0.3086	-2.3623		
34	6.02	-5.55	1.0516	-2.4241	0.6985	-1.7168	0.0150	0.3024	-2.3052		
35	6.00	-6.30	1.0623	-2.4530	0.8807	-2.0808	0.0160	0.2991	-2.3073		
36	6.03	-7.12	1.0247	-2.2954	1.1423	-2.4760	0.0170	0.3035	-2.2402		
37	6.03	-7.88	1.0090	-2.2015	1.2727	-2.8837	0.0180	0.2983	-2.1819		
38	6.05	-8.69	1.0136	-2.1359	1.3484	-3.2126	0.0160	0.2908	-2.1073		
39	6.05	-9.45	1.0030	-2.0871	1.5299	-3.5727	0.0230	0.2925	-2.0809		
40	6.07	-10.26	1.0084	-1.9736	1.7494	-3.9646	0.0280	0.2828	-1.9573		
41	6.05	-11.01	1.0045	-1.9212	1.8705	-4.2644	0.0320	0.2984	-1.9126		
42	6.05	-11.80	0.9727	-1.8027	2.0870	-4.6856	0.0370	0.2946	-1.8533		
43	6.05	-12.52	0.9121	-1.6329	2.1426	-4.8614	0.0470	0.3038	-1.7903		
44	6.06	-13.24	0.9277	-1.5507	2.3859	-5.3080	0.0440	0.2950	-1.6716		
45	6.09	-14.11	0.8797	-1.4145	2.5324	-5.5451	0.0430	0.2890	-1.6080		
46	6.05	-14.90	0.8807	-1.3599	2.7452	-5.8671	0.0440	0.2872	-1.5442		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RATIO-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 1.02 1.10 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	6.08	-15.75	0.8186	-1.1980	2.8998	-6.2295	0.0510	0.2694	-1.4635		
48	6.08	-16.53	0.8216	-1.1212	3.0582	-6.4722	0.0670	0.2631	-1.3647		
49	6.07	-17.35	0.7700	-0.9560	3.2765	-6.8078	0.0860	0.2655	-1.2416		
50	6.08	-18.20	0.7225	-0.6975	3.3559	-6.8949	0.0910	0.2792	-0.9655		
51	6.11	-19.06	0.7679	-0.6441	3.5973	-7.1620	0.1480	0.2740	-0.8348		
52	6.11	-19.82	0.7254	-0.4566	3.8531	-7.3281	0.1660	0.2568	-0.6295		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PH1	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 102 1.10 1.7			0.0	8.2	WOF12	0.0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	6.16	19.76	-0.8981	0.0152	-0.2832	-0.0170	0.3153	0.1139	0.0373	-0.0669	0.3274	-0.5878
2	6.14	19.32	-0.9010	0.0166	-0.2738	-0.0185	0.3039	0.1313	0.0365	-0.0661	0.2783	-0.5038
3	6.14	18.54	-0.9076	0.0177	-0.2717	-0.0195	0.2994	0.1330	0.0364	-0.0642	0.2736	-0.4826
4	6.13	17.84	-0.8748	0.0149	-0.2674	-0.0171	0.3057	0.1197	0.0370	-0.0608	0.3091	-0.5081
5	6.14	17.00	-0.8498	0.0159	-0.2680	-0.0188	0.3153	0.1477	0.0369	-0.0657	0.2501	-0.4447
6	6.12	16.26	-0.8086	0.0160	-0.2645	-0.0198	0.3272	0.1272	0.0366	-0.0662	0.2881	-0.5206
7	6.10	15.44	-0.8084	0.0164	-0.2540	-0.0203	0.3142	0.1268	0.0368	-0.0641	0.2902	-0.5059
8	6.12	14.67	-0.7947	0.0161	-0.2461	-0.0203	0.3097	0.1309	0.0370	-0.0683	0.2830	-0.5216
9	6.09	13.97	-0.7828	0.0170	-0.2310	-0.0218	0.2952	0.1157	0.0368	-0.0695	0.3180	-0.6011
10	6.09	13.20	-0.6949	0.0180	-0.2399	-0.0259	0.3453	0.0930	0.0372	-0.0797	0.4005	-0.8571
11	6.08	12.43	-0.6627	0.0197	-0.2253	-0.0298	0.3400	0.0981	0.0372	-0.0755	0.3796	-0.7697
12	6.05	11.69	-0.6518	0.0193	-0.2134	-0.0296	0.3274	0.0808	0.0372	-0.0790	0.4603	-0.9774
13	6.04	10.89	-0.6304	0.0207	-0.2044	-0.0329	0.3242	0.0820	0.0372	-0.0841	0.4536	-1.0253
14	6.03	10.13	-0.5665	0.0213	-0.1541	-0.0377	0.3426	0.0728	0.0371	-0.0827	0.5102	-1.1366
15	6.07	9.29	-0.5124	0.0227	-0.1897	-0.0443	0.3703	0.0901	0.0371	-0.0909	0.4117	-1.0086
16	6.04	8.57	-0.4839	0.0220	-0.1752	-0.0454	0.3621	0.0788	0.0368	-0.0922	0.4669	-1.1706
17	6.03	7.71	-0.4443	0.0231	-0.1621	-0.0521	0.3647	0.0769	0.0366	-0.0890	0.4759	-1.1570
18	6.01	6.93	-0.4135	0.0231	-0.1492	-0.0558	0.3608	0.0781	0.0364	-0.0891	0.4660	-1.1405
19	6.04	6.10	-0.3607	0.0229	-0.1401	-0.0635	0.3884	0.0704	0.0360	-0.0985	0.5120	-1.3997
20	6.01	5.35	-0.3596	0.0225	-0.1208	-0.0625	0.3360	0.0738	0.0359	-0.0977	0.4864	-1.3240
21	6.01	4.54	-0.2728	0.0212	-0.1116	-0.0777	0.4091	0.0706	0.0355	-0.1003	0.5035	-1.4203
22	6.00	3.73	-0.2057	0.0203	-0.0980	-0.0987	0.4766	0.0528	0.0356	-0.1058	0.6741	-2.0039
23	6.02	3.01	-0.1903	0.0188	-0.0812	-0.0990	0.4268	0.0563	0.0355	-0.1096	0.6304	-1.9474
24	6.01	2.28	-0.0992	0.0165	-0.0731	-0.1668	0.3747	0.0382	0.0352	-0.1083	0.9226	-2.8343
25	6.02	1.47	-0.1143	0.0145	-0.0510	-0.1273	0.4461	0.0264	0.0355	-0.1119	1.3445	-4.2388
26	6.03	0.73	-0.0555	0.0092	-0.0319	-0.1666	0.5747	0.0112	0.0353	-0.1120	3.1512	-10.0061
27	6.01	0.02	-0.0149	0.0044	-0.0239	-0.2986	1.6017	0.0002	0.0353	-0.1200	176.4685	-600.1663
28	6.02	-0.77	0.0176	0.0006	-0.0054	0.0341	-0.3088	0.0005	0.0348	-0.1208	69.6876	-241.6667
29	6.03	-1.58	0.0172	-0.0039	0.0119	-0.2267	0.6937	-0.0344	0.0350	-0.1243	-1.0173	3.6152
30	6.01	-2.43	0.0736	-0.0069	0.0261	-0.0544	0.3550	-0.0452	0.0343	-0.1263	-0.7598	2.7956
31	6.01	-3.19	0.1098	-0.0109	0.0415	-0.0993	0.3778	-0.0468	0.0341	-0.1301	-0.7285	2.7798
32	6.03	-4.00	0.1559	-0.0135	0.0611	-0.0869	0.3922	-0.0602	0.0336	-0.1334	-0.5580	2.2169
33	6.02	-4.79	0.1901	-0.0159	0.0753	-0.0836	0.3963	-0.0743	0.0331	-0.1400	-0.4454	1.8850
34	6.02	-5.55	0.2297	-0.0179	0.0915	-0.0781	0.3985	-0.0759	0.0325	-0.1436	-0.4281	1.8918
35	6.00	-6.30	0.2844	-0.0186	0.1028	-0.0654	0.3613	-0.0822	0.0315	-0.1502	-0.3831	1.8271
36	6.03	-7.12	0.3171	-0.0199	0.1214	-0.0629	0.3827	-0.1052	0.0302	-0.1545	-0.2870	1.4691
37	6.03	-7.88	0.3635	-0.0205	0.1360	-0.0564	0.3742	-0.1256	0.0294	-0.1592	-0.2344	1.2679
38	6.05	-8.69	0.1981	-0.0218	0.1466	-0.0549	0.3681	-0.1413	0.0286	-0.1636	-0.2024	1.1577
39	6.05	-9.45	0.4423	-0.0219	0.1575	-0.0496	0.3560	-0.1602	0.0276	-0.1697	-0.1776	1.0592
40	6.07	-10.26	0.4861	-0.0217	0.1709	-0.0446	0.3515	-0.1636	0.0266	-0.1838	-0.1626	1.1236
41	6.05	-11.01	0.5090	-0.0216	0.1872	-0.0425	0.3678	-0.1895	0.0263	-0.1863	-0.1388	0.9833
42	6.05	-11.80	0.5789	-0.0213	0.1897	-0.0368	0.3277	-0.2011	0.0254	-0.1933	-0.1265	0.9613
43	6.05	-12.52	0.6271	-0.0211	0.2012	-0.0337	0.3208	-0.2571	0.0242	-0.2016	-0.0941	0.7844
44	6.06	-13.24	0.6567	-0.0206	0.2072	-0.0314	0.3156	-0.2740	0.0240	-0.2079	-0.0845	0.7144
45	6.09	-14.11	0.6408	-0.0208	0.2173	-0.0324	0.3391	-0.3044	0.0228	-0.2070	-0.0749	0.6800
46	6.05	-14.90	0.6905	-0.0205	0.2272	-0.0297	0.3290	-0.3226	0.0220	-0.2146	-0.0682	0.6651

857

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		182	1.10 1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	6.08	-15.75	0.7282	-0.0209	0.2348	-0.0287	0.3225	-0.3051	0.0212	-0.2186	-0.0696	0.7162
48	6.08	-16.53	0.7572	-0.0196	0.2446	-0.0259	0.3230	-0.3784	0.0207	-0.2265	-0.0547	0.5985
49	6.07	-17.35	0.7934	-0.0179	0.2535	-0.0226	0.3195	-0.3973	0.0200	-0.2381	-0.0503	0.5992
50	6.08	-18.20	0.8373	-0.0170	0.2603	-0.0203	0.3109	-0.4466	0.0199	-0.2424	-0.0445	0.5428
51	6.11	-19.06	0.8475	-0.0153	0.2695	-0.0181	0.3180	-0.5100	0.0212	-0.2681	-0.0416	0.5257
52	6.11	-19.82	0.9120	-0.0154	0.2739	-0.0169	0.3003	-0.5641	0.0219	-0.2739	-0.0389	0.4854

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART			MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6			1.10	1.7	0.0	82WOF12	0.6	0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	6.16	19.76	-1.0874	0.0072	-0.4464	-0.0067	0.4105	-0.2039	-0.0224	-0.0437	0.1098	0.2145
2	6.14	19.32	-1.0915	0.0079	-0.4447	-0.0072	0.4074	-0.1760	-0.0280	-0.0282	0.1591	0.1605
3	6.14	18.54	-1.1040	0.0074	-0.4358	-0.0067	0.3947	-0.1984	-0.0238	-0.0333	0.1199	0.1679
4	6.13	17.84	-1.0736	0.0085	-0.4373	-0.0079	0.4073	-0.1446	-0.0312	-0.0293	0.2157	0.2025
5	6.14	17.00	-1.0474	0.0082	-0.4370	-0.0078	0.4172	-0.2010	-0.0296	-0.0080	0.1475	0.0397
6	6.12	16.26	-1.0163	0.0082	-0.4279	-0.0081	0.4211	-0.1247	-0.0361	0.0018	0.2894	-0.0148
7	6.10	15.44	-1.0108	0.0090	-0.4219	-0.0089	0.4174	-0.0709	-0.0373	0.0135	0.5267	-0.1901
8	6.12	14.67	-0.9947	0.0089	-0.4087	-0.0090	0.4109	-0.0922	-0.0386	0.0304	0.4186	-0.3295
9	6.09	13.97	-0.9013	0.0086	-0.4062	-0.0096	0.4507	0.0152	-0.0396	0.0346	-2.6081	2.2740
10	6.09	13.20	-0.8842	0.0077	-0.3856	-0.0087	0.4361	0.0244	-0.0393	0.0527	-1.6104	2.1611
11	6.08	12.43	-0.8242	0.0061	-0.3735	-0.0074	0.4532	0.0991	-0.0394	0.0654	-0.3980	0.6602
12	6.05	11.69	-0.7631	0.0053	-0.3593	-0.0069	0.4709	0.0925	-0.0379	0.0752	-0.4102	0.8132
13	6.04	10.89	-0.7406	0.0032	-0.3432	-0.0043	0.4635	0.1352	-0.0383	0.0803	-0.2836	0.5943
14	6.03	10.13	-0.6597	0.0026	-0.3286	-0.0039	0.4981	0.1630	-0.0367	0.0889	-0.2254	0.5455
15	6.07	9.29	-0.6563	0.0007	-0.3019	-0.0011	0.4600	0.1728	-0.0345	0.1040	-0.1996	0.6017
16	6.04	8.57	-0.5895	-0.0003	-0.2845	0.0005	0.4826	0.2083	-0.0321	0.1047	-0.1541	0.5027
17	6.03	7.71	-0.5256	-0.0018	-0.2691	0.0034	0.5120	0.2215	-0.0292	0.1181	-0.1318	0.5332
18	6.01	6.93	-0.4665	-0.0025	-0.2470	0.0025	0.5295	0.2322	-0.0258	0.1254	-0.1111	0.5404
19	6.04	6.10	-0.4012	-0.0035	-0.2232	0.0088	0.5562	0.2668	-0.0231	0.1225	-0.0866	0.4592
20	6.01	5.35	-0.3317	-0.0036	-0.2058	0.0110	0.6204	0.3169	-0.0209	0.1301	-0.0661	0.4105
21	6.01	4.54	-0.2659	-0.0037	-0.1771	0.0131	0.6192	0.3074	-0.0168	0.1376	-0.0546	0.4477
22	6.00	3.73	-0.2502	-0.0030	-0.1448	0.0122	0.5790	0.3041	-0.0133	0.1438	-0.0437	0.4729
23	6.02	3.01	-0.1792	-0.0029	-0.1313	0.0162	0.7328	0.3224	-0.0119	0.1425	-0.0370	0.4421
24	6.01	2.28	-0.1244	-0.0031	-0.1000	0.0253	0.8043	0.3565	-0.0098	0.1454	-0.0276	0.4078
25	6.02	1.47	-0.0778	-0.0033	-0.0750	0.0431	0.9643	0.3430	-0.0085	0.1546	-0.0249	0.4507
26	6.03	0.73	-0.0010	-0.0032	-0.0567	3.1944	56.7332	0.3587	-0.0075	0.1520	-0.0209	0.4238
27	6.01	0.02	-0.0056	-0.0038	-0.0230	0.6874	4.1011	0.3721	-0.0058	0.1570	-0.0157	0.4215
28	6.02	-0.77	0.0706	-0.0049	-0.0054	-0.0694	-0.0761	0.3862	-0.0067	0.1663	-0.0173	0.4305
29	6.03	-1.58	0.1245	-0.0039	0.0132	-0.0317	0.1059	0.4075	-0.0067	0.1635	-0.0164	0.4012
30	6.01	-2.43	0.1543	-0.0039	0.0406	-0.0253	0.2632	0.4120	-0.0067	0.1690	-0.0164	0.4101
31	6.01	-3.19	0.2013	-0.0027	0.0659	-0.0137	0.3273	0.4381	-0.0059	0.1679	-0.0135	0.3832
32	6.03	-4.00	0.2672	-0.0022	0.0932	-0.0082	0.3489	0.4179	-0.0065	0.1745	-0.0155	0.4174
33	6.02	-4.79	0.2946	-0.0004	0.1233	-0.0014	0.4184	0.4124	-0.0055	0.1739	-0.0133	0.4217
34	6.02	-5.55	0.3948	0.0005	0.1376	0.0014	0.3484	0.4528	-0.0056	0.1707	-0.0124	0.3769
35	6.00	-6.30	0.4302	0.0013	0.1642	0.0031	0.3816	0.4376	-0.0050	0.1817	-0.0114	0.4152
36	6.03	-7.12	0.4688	0.0025	0.1441	0.0054	0.4140	0.4367	-0.0041	0.1815	-0.0094	0.4156
37	6.03	-7.88	0.5819	0.0019	0.2018	0.0013	0.3468	0.4470	-0.0041	0.1775	-0.0093	0.3972
38	6.05	-8.69	0.6018	0.0021	0.2330	0.0036	0.3872	0.4184	-0.0040	0.1857	-0.0096	0.4138
39	6.05	-9.45	0.6691	0.0029	0.2442	0.0044	0.3650	0.4662	-0.0031	0.1806	-0.0068	0.3875
40	6.07	-10.26	0.6870	0.0018	0.2780	0.0027	0.4047	0.4495	-0.0023	0.1790	-0.0051	0.3982
41	6.05	-11.01	0.7531	0.0016	0.2931	0.0021	0.3692	0.4576	-0.0022	0.1820	-0.0049	0.3977
42	6.05	-11.80	0.8076	0.0013	0.3099	0.0016	0.3837	0.4442	-0.0019	0.1866	-0.0044	0.4201
43	6.05	-12.52	0.8853	0.0015	0.3217	0.0018	0.3634	0.4276	-0.0005	0.1852	-0.0013	0.4331
44	6.06	-13.24	0.9160	0.0008	0.3391	0.0009	0.3702	0.5004	-0.0006	0.1787	-0.0012	0.3572
45	6.09	-14.11	0.9675	-0.0006	0.3537	-0.0007	0.3656	0.4757	-0.0010	0.1813	-0.0022	0.3811
46	6.09	-14.90	1.0284	-0.0011	0.3647	-0.0011	0.3765	0.4634	-0.0018	0.1870	-0.0036	0.4039

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 182 1.10 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	LM4	CM4	XCPF4	YCPF4
47	6.08	-15.75	1.0573	-0.0004	0.3824	-0.0004	0.3617	0.4826	-0.0024	0.1856	-0.0050	0.3846
48	6.08	-16.53	1.1181	-0.0007	0.3507	-0.0007	0.3494	0.4758	-0.0019	0.1871	-0.0040	0.3933
49	6.07	-17.35	1.1230	0.0013	0.4049	0.0012	0.3605	0.4732	-0.0024	0.1866	-0.0051	0.3943
50	6.08	-18.20	1.2220	0.0006	0.3979	0.0005	0.3256	0.4621	-0.0030	0.1819	-0.0065	0.3936
51	6.11	-19.06	1.2162	0.0016	0.4125	0.0014	0.3392	0.5137	-0.0019	0.1874	-0.0037	0.3647
52	6.11	-19.82	1.2524	0.0058	0.4169	0.0047	0.3329	0.4895	-0.0020	0.1875	-0.0042	0.3831

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	183	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	9.18	19.53	1.4547	-1.6146	-3.8410	6.7872	-0.1820	0.2515	-1.1099		
2	9.17	19.48	1.4212	-1.6187	-3.8855	6.7675	-0.1610	0.2406	-1.1390		
3	9.16	19.10	1.4407	-1.6060	-3.8916	6.6891	-0.1640	0.2483	-1.1148		
4	9.16	18.39	1.4849	-1.9459	-3.7926	6.6695	-0.1650	0.2364	-1.3104		
5	9.19	17.58	1.4667	-1.8614	-3.6851	6.5860	-0.1480	0.2407	-1.2691		
6	9.16	16.76	1.4668	-1.9345	-3.6278	6.4568	-0.1370	0.2320	-1.3189		
7	9.15	16.02	1.4843	-2.1350	-3.4465	6.3455	-0.1050	0.2328	-1.4504		
8	9.13	15.28	1.5011	-2.3475	-3.2027	6.1505	-0.0790	0.2198	-1.5639		
9	9.13	14.49	1.5434	-2.4317	-3.0826	5.9417	-0.0710	0.2287	-1.5756		
10	9.10	13.74	1.5164	-2.5529	-2.8964	5.7948	-0.0590	0.2219	-1.6835		
11	9.13	12.96	1.5760	-2.8183	-2.7073	5.4181	-0.0290	0.2187	-1.7883		
12	9.12	12.25	1.5262	-2.8496	-2.4536	5.2118	-0.0060	0.2274	-1.8671		
13	9.09	11.44	1.5413	-2.9657	-2.3424	4.9481	-0.0020	0.2392	-1.9242		
14	9.09	10.70	1.5668	-3.0684	-2.2142	4.6572	-0.0010	0.2369	-1.9584		
15	9.08	9.85	1.5749	-3.1787	-1.9891	4.3196	0.0190	0.2368	-2.0184		
16	9.07	9.12	1.5708	-3.3110	-1.8039	3.9352	0.0260	0.2473	-2.1078		
17	9.06	8.25	1.5996	-3.3883	-1.6491	3.6215	0.0320	0.2469	-2.1182		
18	9.06	7.52	1.5789	-3.4053	-1.4836	3.3149	0.0370	0.2463	-2.1568		
19	9.03	6.76	1.5868	-3.5253	-1.3076	2.8945	0.0320	0.2415	-2.2242		
20	9.05	5.96	1.6019	-3.5655	-1.1884	2.5957	0.0310	0.2573	-2.2258		
21	9.03	5.07	1.6265	-3.7129	-1.0672	2.2769	0.0220	0.2449	-2.2826		
22	9.04	4.30	1.6540	-3.8124	-0.8626	1.8825	0.0210	0.2521	-2.3050		
23	9.04	3.49	1.6337	-3.7760	-0.7587	1.5621	0.0130	0.2569	-2.3113		
24	9.03	2.83	1.6586	-3.8198	-0.5405	1.1497	0.0120	0.2705	-2.3031		
25	9.01	2.00	1.6303	-3.8522	-0.4120	0.9158	0.0160	0.2677	-2.3629		
26	9.01	1.27	1.6103	-3.8542	-0.3731	0.7752	0.0130	0.2691	-2.3935		
27	9.03	0.46	1.6558	-3.9065	-0.1056	0.3738	0.0180	0.2850	-2.3536		
28	9.03	-0.20	1.6565	-3.9539	-0.0250	0.2036	0.0150	0.2906	-2.3869		
29	9.02	-1.03	1.6272	-3.8779	0.0821	-0.0649	0.0130	0.2837	-2.3832		
30	9.03	-1.84	1.6431	-3.9001	0.0621	-0.1179	0.0160	0.2897	-2.3737		
31	9.03	-2.64	1.6457	-3.8937	0.2525	-0.3645	0.0220	0.2877	-2.3660		
32	9.03	-3.41	1.5942	-3.8527	0.3189	-0.5844	0.0230	0.2669	-2.4167		
33	9.02	-4.27	1.6127	-3.7726	0.4622	-0.8831	0.0200	0.2829	-2.3393		
34	9.04	-5.01	1.6056	-3.7686	0.5956	-1.2028	0.0160	0.2829	-2.3412		
35	9.04	-5.76	1.6039	-3.6993	0.8182	-1.6754	0.0100	0.2956	-2.3064		
36	9.04	-6.51	1.5646	-3.6082	0.9242	-1.9268	0.0120	0.2816	-2.3062		
37	9.05	-7.34	1.6186	-3.5828	1.1820	-2.4148	0.0120	0.2911	-2.2136		
38	9.05	-8.13	1.5857	-3.4708	1.2782	-2.7464	0.0070	0.2820	-2.1888		
39	9.07	-8.94	1.6122	-3.4069	1.4269	-3.1295	0.0170	0.2847	-2.1132		
40	9.05	-9.72	1.5600	-3.2878	1.6723	-3.5536	0.0210	0.2911	-2.1076		
41	9.08	-10.49	1.5832	-3.2183	1.7287	-3.7350	0.0300	0.2923	-2.0328		
42	9.08	-11.21	1.5708	-3.1580	1.8503	-4.1492	0.0520	0.2927	-2.0104		
43	9.08	-11.99	1.5759	-3.0951	2.1142	-4.4977	0.0730	0.2877	-1.9640		
44	9.08	-12.73	1.5744	-2.9281	2.2088	-4.8101	0.0920	0.2938	-1.8598		
45	9.09	-13.51	1.5500	-2.8579	2.4400	-5.2107	0.0820	0.2910	-1.8438		
46	9.09	-14.39	1.4870	-2.6917	2.5772	-5.4428	0.0800	0.2785	-1.8102		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RATIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		183	1.10 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	9.11	-15.20	1.5069	-2.6086	2.7696	-5.7402	0.1030	0.2736	-1.7311		
48	9.12	-15.99	1.5237	-2.5671	2.9475	-6.0273	0.1240	0.2766	-1.6848		
49	9.10	-16.83	1.5342	-2.4668	3.0404	-6.1483	0.1540	0.2852	-1.6079		
50	9.13	-17.58	1.5092	-2.3499	3.2729	-6.4416	0.1590	0.2736	-1.5570		
51	9.14	-18.51	1.4820	-2.1528	3.4389	-6.5982	0.1810	0.2634	-1.4526		
52	9.12	-19.30	1.4511	-1.9706	3.7113	-6.8626	0.2060	0.2540	-1.3580		
53	9.17	-20.11	1.4946	-1.8255	3.9725	-6.9593	0.2400	0.2315	-1.2214		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		XX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		183		1.10		1.7	0.0	B2WU12	0.0	0	0	0	FIXED
POINT	ALPHA	BETA	CNF1	CHI1	CHI	XCPF1	YCPF1	CNF2	CHI2	CBI2	XCPF2	YCPF2	
1	9.18	19.53	-0.8104	0.0298	-0.2475	-0.0368	0.3055	0.3704	0.0349	-0.0025	0.0942	-0.0069	
2	9.17	19.48	-0.8100	0.0300	-0.2448	-0.0370	0.3022	0.3695	0.0351	-0.0059	0.0950	-0.0161	
3	9.16	19.10	-0.7840	0.0300	-0.2474	-0.0383	0.3156	0.3619	0.0351	-0.0051	0.0971	-0.0140	
4	9.16	18.39	-0.7894	0.0281	-0.2420	-0.0356	0.3066	0.3835	0.0348	0.0035	0.0908	0.0092	
5	9.14	17.58	-0.7703	0.0285	-0.2355	-0.0371	0.3109	0.3566	0.0350	-0.0020	0.0981	-0.0057	
6	9.16	16.76	-0.7394	0.0297	-0.2385	-0.0402	0.3225	0.3567	0.0349	-0.0044	0.0979	-0.0124	
7	9.15	16.02	-0.6921	0.0307	-0.2295	-0.0444	0.3316	0.3735	0.0346	-0.0036	0.0927	-0.0097	
8	9.13	15.28	-0.6634	0.0302	-0.2264	-0.0455	0.3414	0.3718	0.0346	-0.0066	0.0932	-0.0177	
9	9.13	14.49	-0.6624	0.0312	-0.2140	-0.0471	0.3231	0.3674	0.0343	-0.0062	0.0935	-0.0170	
10	9.10	13.74	-0.6141	0.0308	-0.2141	-0.0502	0.3487	0.3596	0.0347	-0.0085	0.0965	-0.0237	
11	9.13	12.96	-0.5834	0.0311	-0.2001	-0.0533	0.3430	0.3495	0.0347	-0.0093	0.0992	-0.0266	
12	9.12	12.25	-0.5591	0.0312	-0.1865	-0.0558	0.3343	0.3467	0.0344	-0.0152	0.0992	-0.0439	
13	9.09	11.44	-0.5144	0.0326	-0.1888	-0.0634	0.3670	0.3461	0.0346	-0.0237	0.1001	-0.0686	
14	9.09	10.70	-0.5008	0.0332	-0.1759	-0.0664	0.3512	0.3321	0.0349	-0.0230	0.1050	-0.0693	
15	9.08	9.85	-0.4413	0.0335	-0.1662	-0.0759	0.3765	0.2969	0.0352	-0.0249	0.1185	-0.0840	
16	9.07	9.12	-0.3976	0.0344	-0.1570	-0.0865	0.3948	0.3021	0.0353	-0.0277	0.1170	-0.0917	
17	9.06	8.25	-0.3640	0.0335	-0.1408	-0.0873	0.3665	0.2774	0.0353	-0.0272	0.1274	-0.0981	
18	9.06	7.52	-0.3143	0.0342	-0.1341	-0.1088	0.4267	0.2683	0.0353	-0.0353	0.1317	-0.1316	
19	9.03	6.76	-0.2804	0.0338	-0.1235	-0.1207	0.4405	0.2690	0.0352	-0.0370	0.1308	-0.1374	
20	9.05	5.96	-0.2214	0.0339	-0.1184	-0.1533	0.5347	0.2449	0.0352	-0.0390	0.1439	-0.1592	
21	9.03	5.07	-0.2218	0.0339	-0.1070	-0.1528	0.4824	0.2531	0.0353	-0.0402	0.1396	-0.1587	
22	9.04	4.30	-0.1568	0.0359	-0.0910	-0.2292	0.5807	0.2436	0.0353	-0.0425	0.1449	-0.1746	
23	9.04	3.49	-0.1122	0.0361	-0.0809	-0.3217	0.7209	0.2434	0.0351	-0.0473	0.1444	-0.1943	
24	9.03	2.83	-0.1289	0.0334	-0.0649	-0.2595	0.5039	0.2125	0.0353	-0.0515	0.1661	-0.2423	
25	9.01	2.00	-0.0858	0.0266	-0.0523	-0.3106	0.6094	0.2154	0.0354	-0.0586	0.1645	-0.2722	
26	9.01	1.27	-0.0457	0.0198	-0.0415	-0.4343	0.9087	0.1897	0.0352	-0.0580	0.1855	-0.3057	
27	9.03	0.46	-0.0061	0.0094	-0.0315	-1.5489	5.1693	0.1677	0.0355	-0.0651	0.2116	-0.3883	
28	9.03	-0.20	-0.0444	0.0031	-0.0102	-0.0698	0.2296	0.1728	0.0355	-0.0700	0.2057	-0.4052	
29	9.02	-1.03	0.0146	-0.0024	-0.0098	-0.1644	-0.6736	0.1512	0.0350	-0.0783	0.2318	-0.5180	
30	9.03	-1.84	0.0276	-0.0090	0.0050	-0.3260	0.1810	0.1438	0.0348	-0.0846	0.2423	-0.5882	
31	9.03	-2.64	0.0358	-0.0174	0.0266	-0.4813	0.7438	0.1325	0.0346	-0.0901	0.2611	-0.6804	
32	9.03	-3.41	0.0663	-0.0234	0.0371	-0.3536	0.5595	0.1123	0.0341	-0.0962	0.3036	-0.8565	
33	9.02	-4.27	0.1229	-0.0280	0.0521	-0.2282	0.4243	0.0784	0.0316	-0.1018	0.3414	-1.0347	
34	9.04	-5.01	0.1167	-0.0285	0.0690	-0.2446	0.5711	0.0963	0.0329	-0.1087	0.3416	-1.1289	
35	9.04	-5.76	0.1572	-0.0303	0.0823	-0.1977	0.5234	0.0871	0.0321	-0.1132	0.3691	-1.2494	
36	9.04	-6.51	0.1953	-0.0295	0.0898	-0.1510	0.4597	0.0585	0.0313	-0.1165	0.3558	-1.9916	
37	9.05	-7.34	0.2091	-0.0296	0.1112	-0.1418	0.5317	0.0361	0.0303	-0.1236	0.8406	-3.4258	
38	9.05	-8.13	0.2473	-0.0317	0.1234	-0.1282	0.4990	0.0391	0.0295	-0.1308	0.7543	-3.3471	
39	9.07	-8.94	0.2948	-0.0319	0.1365	-0.1083	0.4631	0.0168	0.0284	-0.1398	1.6702	-8.3215	
40	9.05	-9.72	0.3467	-0.0319	0.1446	-0.0921	0.4171	-0.0137	0.0279	-0.1466	-2.0361	10.7055	
41	9.08	-10.49	0.4188	-0.0323	0.1521	-0.0772	0.3631	-0.0467	0.0270	-0.1538	-0.5781	3.2947	
42	9.08	-11.21	0.4757	-0.0322	0.1618	-0.0677	0.3402	-0.0789	0.0265	-0.1639	-0.3364	2.0772	
43	9.08	-11.99	0.4798	-0.0307	0.1794	-0.0641	0.3738	-0.1061	0.0260	-0.1751	-0.2450	1.6508	
44	9.08	-12.73	0.5313	-0.0305	0.1972	-0.0574	0.3712	-0.1749	0.0259	-0.1798	-0.1483	1.0285	
45	9.09	-13.51	0.6029	-0.0305	0.1946	-0.0506	0.3228	-0.1621	0.0253	-0.1823	-0.1564	1.1247	
46	9.09	-14.39	0.5956	-0.0306	0.2090	-0.0514	0.3508	-0.1812	0.0251	-0.1861	-0.1388	1.0275	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6		183 1.10 1.7		0.0 0.2WOF12		0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2	
47	9.11	-15.20	0.6230	-0.0304	0.2156	-0.0488	0.3461	-0.2398	0.0248	-0.1992	-0.1034	0.8307	
48	9.12	-15.99	0.6436	-0.0301	0.2253	-0.0468	0.3564	-0.2742	0.0249	-0.2066	-0.0908	0.7537	
49	9.10	-16.83	0.6791	-0.0284	0.2424	-0.0419	0.3569	-0.3281	0.0254	-0.2163	-0.0775	0.6592	
50	9.13	-17.58	0.7481	-0.0258	0.2441	-0.0345	0.3263	-0.3773	0.0250	-0.2195	-0.0664	0.5818	
51	9.14	-18.51	0.7462	-0.0243	0.2570	-0.0326	0.3445	-0.3929	0.0249	-0.2259	-0.0635	0.5749	
52	9.12	-19.30	0.8136	-0.0234	0.2573	-0.0288	0.3163	-0.4520	0.0258	-0.2383	-0.0572	0.5272	
53	9.17	-20.11	0.8670	-0.0239	0.2634	-0.0276	0.3038	-0.5284	0.0281	-0.2537	-0.0533	0.4800	

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
0	183	1.10	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
1	9.18	19.53	-1.1534	0.0074	-0.4504	-0.0085	0.3905	-0.1169	-0.0259	-0.0037	0.2215	0.0312
2	9.17	19.48	-1.1565	0.0074	-0.4476	-0.0064	0.3871	-0.0851	-0.0277	0.0053	0.3260	-0.0628
3	9.16	19.10	-1.1397	0.0074	-0.4479	-0.0065	0.3930	-0.1228	-0.0234	0.0103	0.2316	-0.0837
4	9.16	18.39	-1.1314	0.0064	-0.4461	-0.0057	0.3963	-0.0888	-0.0276	0.0057	0.3108	-0.0643
5	9.19	17.58	-1.1087	0.0071	-0.4470	-0.0064	0.4032	-0.0547	-0.0301	0.0193	0.5511	-0.3523
6	9.16	16.76	-1.1136	0.0073	-0.4396	-0.0066	0.3947	-0.0629	-0.0290	0.0243	0.4610	-0.3870
7	9.15	16.02	-1.0541	0.0060	-0.4400	-0.0057	0.4174	0.0378	-0.0347	0.0487	-0.9178	1.2882
8	9.13	15.28	-1.0466	0.0072	-0.4234	-0.0069	0.4046	0.0549	-0.0357	0.0635	-0.6502	1.1565
9	9.13	14.49	-0.9903	0.0090	-0.4208	-0.0091	0.4249	0.0826	-0.0374	0.0755	-0.4533	0.9143
10	9.10	13.74	-0.9640	0.0090	-0.4069	-0.0093	0.4221	0.0980	-0.0376	0.0827	-0.3841	0.8444
11	9.13	12.96	-0.9234	0.0085	-0.3926	-0.0092	0.4251	0.1641	-0.0392	0.1056	-0.2391	0.6434
12	9.12	12.25	-0.8666	0.0078	-0.3834	-0.0090	0.4424	0.2016	-0.0397	0.1184	-0.1969	0.5872
13	9.09	11.44	-0.7872	0.0062	-0.3723	-0.0079	0.4729	0.2630	-0.0383	0.1195	-0.1458	0.4545
14	9.09	10.70	-0.7416	0.0048	-0.3570	-0.0065	0.4814	0.2740	-0.0375	0.1304	-0.1370	0.4759
15	9.08	9.85	-0.6870	0.0033	-0.3397	-0.0048	0.4945	0.3036	-0.0355	0.1418	-0.1170	0.4669
16	9.07	9.12	-0.6684	0.0014	-0.3133	-0.0022	0.4687	0.3045	-0.0342	0.1546	-0.1124	0.5075
17	9.06	8.25	-0.5815	-0.0011	-0.2553	0.0019	0.5079	0.3531	-0.0312	0.1601	-0.0883	0.4533
18	9.06	7.52	-0.5319	-0.0028	-0.2699	0.0054	0.5075	0.3914	-0.0288	0.1620	-0.0732	0.4139
19	9.03	6.76	-0.4584	-0.0051	-0.2474	0.0112	0.5398	0.4134	-0.0251	0.1674	-0.0607	0.4048
20	9.05	5.96	-0.3986	-0.0055	-0.2252	0.0138	0.5650	0.4275	-0.0228	0.1743	-0.0533	0.4076
21	9.03	5.07	-0.3615	-0.0071	-0.1980	0.0196	0.5475	0.4273	-0.0202	0.1853	-0.0474	0.4336
22	9.04	4.30	-0.2673	-0.0058	-0.1770	0.0219	0.6624	0.4650	-0.0164	0.1844	-0.0354	0.3966
23	9.04	3.49	-0.2539	-0.0060	-0.1401	0.0236	0.5518	0.4840	-0.0137	0.1870	-0.0284	0.3863
24	9.03	2.83	-0.1687	-0.0052	-0.1187	0.0308	0.7037	0.5099	-0.0127	0.1917	-0.0249	0.3760
25	9.01	2.00	-0.1023	-0.0051	-0.0582	0.0498	0.9598	0.4968	-0.0115	0.2026	-0.0232	0.4079
26	9.01	1.27	-0.0588	-0.0047	-0.0701	0.0799	1.1921	0.5323	-0.0106	0.2072	-0.0199	0.3892
27	9.03	0.46	-0.0223	-0.0047	-0.0414	0.2107	1.8579	0.5637	-0.0095	0.2115	-0.0169	0.3753
28	9.03	-0.20	0.0067	-0.0041	-0.0098	-0.6193	-1.4578	0.6033	-0.0079	0.2173	-0.0132	0.3602
29	9.02	-1.03	0.1148	-0.0036	-0.0036	-0.0318	-0.0318	0.5963	-0.0083	0.2210	-0.0139	0.3706
30	9.03	-1.84	0.1412	-0.0028	0.0256	-0.0202	0.1017	0.6257	-0.0084	0.2254	-0.0134	0.3602
31	9.03	-2.64	0.1697	-0.0022	0.0571	-0.0133	0.3368	0.6410	-0.0085	0.2336	-0.0133	0.3647
32	9.03	-3.41	0.2260	-0.0004	0.0786	-0.0018	0.3478	0.6396	-0.0085	0.2399	-0.0133	0.3751
33	9.02	-4.27	0.2909	0.0001	0.1080	0.0005	0.3714	0.6750	-0.0081	0.2361	-0.0121	0.3498
34	9.04	-5.01	0.3236	0.0024	0.1328	0.0076	0.4104	0.6956	-0.0083	0.2350	-0.0119	0.3378
35	9.04	-5.76	0.4048	0.0030	0.1606	0.0075	0.3967	0.7042	-0.0083	0.2383	-0.0118	0.3385
36	9.04	-6.51	0.4625	0.0035	0.1826	0.0076	0.3948	0.6443	-0.0081	0.2558	-0.0126	0.3970
37	9.05	-7.34	0.5480	0.0042	0.2077	0.0077	0.3786	0.7057	-0.0084	0.2504	-0.0119	0.3549
38	9.05	-8.13	0.6178	0.0045	0.2266	0.0074	0.3667	0.6865	-0.0084	0.2535	-0.0122	0.3693
39	9.07	-8.94	0.6667	0.0042	0.2581	0.0065	0.3991	0.7059	-0.0087	0.2572	-0.0124	0.3644
40	9.05	-9.72	0.7469	0.0032	0.2685	0.0043	0.3595	0.7129	-0.0087	0.2563	-0.0123	0.3596
41	9.08	-10.49	0.7959	0.0021	0.2923	0.0027	0.3673	0.7396	-0.0088	0.2593	-0.0119	0.3507
42	9.08	-11.21	0.8051	0.0013	0.3199	0.0017	0.3974	0.7640	-0.0088	0.2616	-0.0116	0.3424
43	9.08	-11.99	0.8712	-0.0007	0.3275	-0.0008	0.3759	0.7350	-0.0087	0.2709	-0.0118	0.3686
44	9.08	-12.73	0.9066	-0.0015	0.3512	-0.0017	0.3674	0.7623	-0.0087	0.2632	-0.0115	0.3453
45	9.09	-13.51	0.9812	-0.0013	0.3617	-0.0013	0.3686	0.7378	-0.0085	0.2696	-0.0115	0.3655
46	9.09	-14.39	1.0318	-0.0014	0.3764	-0.0014	0.3648	0.7254	-0.0084	0.2750	-0.0130	0.3791

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH RX10-6		PHI	CNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		183	1.10 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	9.11	-15.20	1.0780	-0.0012	0.3880	-0.0012	0.3549	0.7681	-0.0093	0.2729	-0.0121	0.3553
48	9.12	-15.99	1.1380	-0.0001	0.3957	-0.0001	0.3477	0.7913	-0.0080	0.2718	-0.0101	0.3434
49	9.10	-16.83	1.1617	0.0009	0.4035	0.0008	0.3473	0.7671	-0.0061	0.2761	-0.0080	0.3599
50	9.13	-17.58	1.1953	0.0038	0.4127	0.0032	0.3453	0.7555	-0.0071	0.2794	-0.0095	0.3699
51	9.14	-18.51	1.2372	0.0040	0.4190	0.0033	0.3387	0.7512	-0.0065	0.2829	-0.0087	0.3766
52	9.12	-19.30	1.2439	0.0054	0.4294	0.0043	0.3452	0.7447	-0.0061	0.2852	-0.0083	0.3830
53	9.17	-20.11	1.2927	0.0078	0.4291	0.0060	0.3320	0.7885	-0.0044	0.2766	-0.0056	0.3508

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	184	1.10	1.7	0.0	B2W0F12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	12.24	19.63	2.1625	-2.7356	-3.8562	6.1416	-0.1710	0.2572	-1.2650		
2	12.25	19.31	2.1362	-2.6138	-4.0044	6.2510	-0.1470	0.2427	-1.2235		
3	12.21	18.52	2.1371	-2.7700	-3.8031	6.1002	-0.1400	0.2565	-1.2961		
4	12.23	17.76	2.1833	-2.6277	-3.8194	5.9081	-0.1480	0.2402	-1.2035		
5	12.23	16.91	2.1602	-2.8453	-3.6869	5.8156	-0.1300	0.2582	-1.3171		
6	12.20	16.14	2.1603	-2.9425	-3.5703	5.8564	-0.1120	0.2309	-1.3620		
7	12.20	15.42	2.1792	-3.1759	-3.2924	5.6682	-0.0750	0.2321	-1.4574		
8	12.17	14.67	2.1605	-3.3787	-3.0564	5.4558	-0.0290	0.2219	-1.5638		
9	12.15	13.87	2.1633	-3.6026	-2.8711	5.2144	-0.0200	0.2254	-1.6653		
10	12.13	13.14	2.1192	-3.8638	-2.7426	5.1765	0.0260	0.2331	-1.7289		
11	12.14	12.38	2.1660	-3.9873	-2.5954	4.8833	0.0220	0.2414	-1.8408		
12	12.11	11.65	2.1248	-4.0006	-2.3898	4.7005	0.0480	0.2522	-1.8828		
13	12.11	10.85	2.2290	-4.1845	-2.2132	4.3453	0.0380	0.2534	-1.8773		
14	12.08	10.09	2.1665	-4.3350	-1.9513	4.0337	0.0440	0.2341	-2.0009		
15	12.09	9.30	2.1694	-4.3510	-1.8716	3.7380	0.0600	0.2485	-2.0056		
16	12.08	8.49	2.1855	-4.4605	-1.7518	3.4214	0.0690	0.2435	-2.0410		
17	12.07	7.67	2.1686	-4.5939	-1.5397	3.0985	0.0690	0.2397	-2.1183		
18	12.05	6.88	2.1580	-4.5780	-1.3229	2.7760	0.0600	0.2536	-2.1214		
19	12.06	6.13	2.2021	-4.7387	-1.1960	2.2474	0.0730	0.2503	-2.1519		
20	12.05	5.23	2.1848	-4.7825	-1.0405	1.8656	0.0610	0.2568	-2.1890		
21	12.05	4.49	2.2632	-4.9962	-0.8060	1.5165	0.0560	0.2551	-2.2076		
22	12.03	3.68	2.2432	-5.0092	-0.7008	1.2531	0.0460	0.2451	-2.2331		
23	12.05	2.97	2.2204	-4.9523	-0.5885	0.9545	0.0400	0.2594	-2.2304		
24	12.04	2.17	2.1582	-5.0082	-0.4033	0.6777	0.0330	0.2675	-2.2783		
25	12.00	1.40	2.2261	-5.1333	-0.3550	0.5439	0.0400	0.2587	-2.3059		
26	12.02	0.62	2.2370	-5.1185	-0.2374	0.3833	0.0200	0.2586	-2.2881		
27	12.01	-0.09	2.2234	-5.1165	-0.0806	0.2008	0.0150	0.2773	-2.3012		
28	12.03	-0.87	2.2238	-5.1181	-0.0220	0.2358	0.0150	0.2827	-2.3015		
29	12.03	-1.65	2.2731	-5.1081	0.0729	0.0195	0.0150	0.2687	-2.2472		
30	12.04	-2.47	2.2373	-5.0500	0.1766	-0.0912	0.0020	0.2792	-2.2572		
31	12.05	-3.27	2.2323	-5.0270	0.3304	-0.3455	0.0200	0.2700	-2.2519		
32	12.04	-4.11	2.1965	-5.0399	0.4447	-0.5806	0.0070	0.2657	-2.2945		
33	12.01	-4.86	2.1881	-4.9781	0.5982	-0.8765	-0.0090	0.2684	-2.2751		
34	12.03	-5.60	2.2108	-4.9539	0.6493	-1.1020	-0.0270	0.2704	-2.2408		
35	12.04	-6.35	2.2164	-4.9267	0.8514	-1.5309	-0.0310	0.2758	-2.2228		
36	12.04	-7.17	2.1468	-4.7773	1.1134	-1.9386	-0.0780	0.2756	-2.2253		
37	12.03	-7.95	2.1821	-4.7357	1.2478	-2.2009	-0.0110	0.2666	-2.1721		
38	12.03	-8.74	2.1628	-4.6277	1.3146	-2.5554	-0.0250	0.2708	-2.1397		
39	12.05	-9.55	2.1742	-4.4467	1.5279	-3.1249	-0.0160	0.2852	-2.0682		
40	12.05	-10.31	2.1780	-4.4650	1.7185	-3.4017	-0.0130	0.2777	-2.0508		
41	12.08	-11.06	2.1618	-4.3484	1.9064	-3.7459	-0.0070	0.2862	-2.0114		
42	12.10	-11.83	2.1824	-4.1832	1.9891	-4.0596	0.0130	0.2773	-1.9168		
43	12.10	-12.59	2.1505	-4.0006	2.1439	-4.4073	0.0260	0.2738	-1.8603		
44	12.12	-13.39	2.1685	-3.9878	2.3521	-4.5808	0.0670	0.2789	-1.8370		
45	12.12	-14.21	2.1840	-3.8425	2.5650	-4.8658	0.0860	0.2710	-1.7594		
46	12.12	-15.07	2.2434	-3.7957	2.6714	-5.0947	0.1330	0.2682	-1.6919		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		PACH RX10-6		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		184	1.10 1.7	0.0	02MOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
47	12.14	-15.82	2.2670	-3.8107	2.8872	-5.2380	0.1680	0.2846	-1.6810		
48	12.14	-16.69	2.2514	-3.4529	3.1254	-5.5594	0.1740	0.2750	-1.5337		
49	12.16	-17.45	2.1768	-3.3895	3.3043	-5.8368	0.1670	0.2547	-1.5571		
50	12.15	-18.33	2.1082	-3.0385	3.5039	-6.0514	0.1560	0.2579	-1.4413		
51	12.18	-19.16	2.1754	-2.9896	3.6624	-6.0563	0.1970	0.2415	-1.3743		
52	12.20	-19.89	2.1425	-2.8875	3.9014	-6.1678	0.2140	0.2421	-1.3477		
53	12.18	-20.26	2.1145	-2.7964	3.9696	-6.2743	0.2250	0.2281	-1.3225		

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TALLS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		184		1.10 1.7		0.0 B2WOF12		0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	C81	XCPF1	YCPF1	CNF2	CH2	C82	XCPF2	YCPF2	
1	12.24	19.63	-0.7181	0.0333	-0.2383	-0.0464	0.3318	0.5747	0.0335	0.0454	0.0583	0.0790	
2	12.25	19.31	-0.6582	0.0369	-0.2300	-0.0561	0.3495	0.5789	0.0333	0.0449	0.0576	0.0776	
3	12.21	18.52	-0.6251	0.0397	-0.2190	-0.0636	0.3503	0.5525	0.0330	0.0476	0.0598	0.0862	
4	12.23	17.76	-0.6039	0.0426	-0.2128	-0.0706	0.3524	0.5539	0.0328	0.0478	0.0593	0.0863	
5	12.23	16.91	-0.5492	0.0432	-0.2171	-0.0787	0.3953	0.5593	0.0329	0.0467	0.0589	0.0835	
6	12.20	16.14	-0.5694	0.0417	-0.1973	-0.0733	0.3466	0.5770	0.0325	0.0419	0.0564	0.0726	
7	12.20	15.42	-0.5092	0.0406	-0.1845	-0.0798	0.3631	0.5467	0.0326	0.0458	0.0596	0.0838	
8	12.17	14.67	-0.4794	0.0402	-0.1826	-0.0839	0.3810	0.5501	0.0327	0.0389	0.0595	0.0708	
9	12.15	13.87	-0.4579	0.0405	-0.1767	-0.0885	0.3858	0.5297	0.0327	0.0414	0.0618	0.0782	
10	12.13	13.14	-0.4031	0.0410	-0.1682	-0.1017	0.4173	0.5207	0.0327	0.0351	0.0628	0.0675	
11	12.14	12.38	-0.4110	0.0423	-0.1616	-0.1029	0.3916	0.4997	0.0327	0.0379	0.0655	0.0759	
12	12.11	11.65	-0.3757	0.0420	-0.1556	-0.1117	0.4141	0.4858	0.0328	0.0312	0.0675	0.0642	
13	12.11	10.85	-0.3412	0.0415	-0.1460	-0.1216	0.4274	0.4989	0.0329	0.0297	0.0660	0.0595	
14	12.08	10.09	-0.3551	0.0414	-0.1337	-0.1167	0.3766	0.4743	0.0330	0.0270	0.0695	0.0569	
15	12.09	9.30	-0.2529	0.0412	-0.1370	-0.1629	0.5420	0.4638	0.0332	0.0216	0.0717	0.0465	
16	12.08	8.49	-0.2444	0.0401	-0.1161	-0.1643	0.4752	0.4517	0.0335	0.0165	0.0741	0.0366	
17	12.07	7.67	-0.1842	0.0406	-0.1131	-0.2204	0.6139	0.4525	0.0333	0.0160	0.0737	0.0354	
18	12.05	6.88	-0.1704	0.0401	-0.1036	-0.2353	0.6079	0.4414	0.0342	0.0108	0.0774	0.0245	
19	12.06	6.13	-0.1080	0.0391	-0.0813	-0.3620	0.7527	0.4429	0.0338	0.0066	0.0763	0.0149	
20	12.05	5.23	-0.1225	0.0409	-0.0712	-0.3342	0.5814	0.4163	0.0335	0.0065	0.0806	0.0157	
21	12.05	4.49	-0.0586	0.0452	-0.0554	-0.7720	0.9458	0.4241	0.0338	0.0067	0.0797	0.0159	
22	12.03	3.68	0.0298	0.0471	-0.0642	1.5803	-2.1534	0.3944	0.0338	0.0021	0.0857	0.0053	
23	12.05	2.97	0.0265	0.0452	-0.0477	1.7072	-1.7969	0.3722	0.0340	-0.0023	0.0913	-0.0063	
24	12.04	2.17	0.0259	0.0356	-0.0353	1.3743	-1.3618	0.3648	0.0347	-0.0128	0.0939	-0.0347	
25	12.00	1.40	0.0249	0.0250	-0.0217	1.0058	-0.8716	0.3333	0.0345	-0.0123	0.1036	-0.0369	
26	12.02	0.62	0.0102	0.0163	-0.0223	1.6027	-2.1864	0.3295	0.0349	-0.0218	0.1060	-0.0661	
27	12.01	-0.09	-0.0191	0.0069	-0.0165	-0.3638	0.8620	0.3056	0.0350	-0.0272	0.1145	-0.0891	
28	12.03	-0.87	-0.0026	-0.0048	-0.0085	1.8458	3.2363	0.2786	0.0349	-0.0340	0.1254	-0.1221	
29	12.03	-1.65	-0.0163	-0.0140	-0.0043	0.8587	-0.2619	0.2654	0.0349	-0.0426	0.1317	-0.1604	
30	12.04	-2.47	-0.0414	-0.0227	0.0071	0.5482	-0.1716	0.2176	0.0346	-0.0480	0.1592	-0.2206	
31	12.05	-3.27	0.0371	-0.0357	0.0214	-0.9634	0.5758	0.2047	0.0340	-0.0558	0.1663	-0.2725	
32	12.04	-4.11	0.0106	-0.0412	0.0353	-3.8861	3.3332	0.2044	0.0338	-0.0660	0.1656	-0.3229	
33	12.01	-4.86	0.0375	-0.0413	0.0329	-1.1025	0.8772	0.1891	0.0337	-0.0711	0.1784	-0.3759	
34	12.05	-5.60	0.0367	-0.0395	0.0393	-1.0761	1.0716	0.1856	0.0331	-0.0723	0.1783	-0.3898	
35	12.04	-6.35	0.1020	-0.0363	0.0480	-0.3563	0.4705	0.1968	0.0321	-0.0821	0.1631	-0.4173	
36	12.04	-7.17	0.1295	-0.0348	0.0659	-0.2691	0.5093	0.1461	0.0311	-0.0850	0.2132	-0.5074	
37	12.03	-7.95	0.1511	-0.0354	0.0749	-0.2346	0.4960	0.1505	0.0305	-0.0934	0.2030	-0.6209	
38	12.03	-8.79	0.1974	-0.0363	0.0895	-0.1839	0.4533	0.1312	0.0294	-0.0999	0.2244	-0.7613	
39	12.05	-9.55	0.2651	-0.0369	0.1047	-0.1392	0.3951	0.1062	0.0284	-0.1111	0.2678	-1.0463	
40	12.05	-10.31	0.2491	-0.0380	0.1204	-0.1525	0.4834	0.0829	0.0272	-0.1201	0.3280	-1.4484	
41	12.08	-11.06	0.3211	-0.0381	0.1286	-0.1188	0.3986	0.0682	0.0265	-0.1278	0.3892	-1.8735	
42	12.10	-11.83	0.3377	-0.0393	0.1425	-0.1165	0.4220	0.0464	0.0257	-0.1389	0.5549	-2.9944	
43	12.10	-12.59	0.3863	-0.0402	0.1524	-0.1040	0.3946	-0.0028	0.0251	-0.1473	-8.9627	52.6189	
44	12.12	-13.39	0.4362	-0.0404	0.1629	-0.0926	0.3733	-0.0795	0.0248	-0.1583	-0.3125	1.9911	
45	12.12	-14.21	0.4854	-0.0407	0.1721	-0.0839	0.3546	-0.1092	0.0249	-0.1710	-0.2284	1.5658	
46	12.12	-15.07	0.5355	-0.0399	0.1894	-0.0746	0.3338	-0.1929	0.0260	-0.1884	-0.1348	0.9771	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6		184	1.10	1.7	0.0	82W0F12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	12.14	-15.82	0.5471	-0.0410	0.2011	-0.0749	0.3676	-0.2571	0.0270	-0.1972	-0.1052	0.7673
48	12.14	-16.69	0.5993	-0.0417	0.2006	-0.0696	0.3347	-0.2881	0.0266	-0.2068	-0.0925	0.7177
49	12.16	-17.45	0.5789	-0.0398	0.2135	-0.0687	0.3695	-0.2710	0.0259	-0.2056	-0.0956	0.7587
50	12.15	-18.33	0.6299	-0.0390	0.2153	-0.0620	0.3418	-0.2833	0.0269	-0.2109	-0.0951	0.7443
51	12.18	-19.16	0.6782	-0.0355	0.2255	-0.0523	0.3331	-0.3224	0.0282	-0.2147	-0.0876	0.6659
52	12.20	-19.89	0.7428	-0.0337	0.2334	-0.0454	0.3142	-0.3690	0.0295	-0.2215	-0.0799	0.6004
53	12.18	-20.26	0.7574	-0.0319	0.2338	-0.0421	0.3087	-0.3690	0.0290	-0.2218	-0.0787	0.6012

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	OEL3	DEL4	TRANSITION	
6	184	1.10	1.7	0.0	82WUF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CH3	XCPCF3	YCPCF3	CNF4	CH4	C84	XCPCF4	YCPCF4
1	12.24	19.63	-1.2214	0.0054	-0.4528	-0.0045	0.3707	0.0217	-0.0297	0.0395	-1.3707	1.8217
2	12.25	19.31	-1.1909	0.0057	-0.4633	-0.0048	0.3890	0.0385	-0.0336	0.0444	-0.8739	1.1540
3	12.21	18.52	-1.1331	0.0056	-0.4645	-0.0050	0.4144	0.0195	-0.0366	0.0561	-1.8792	2.0768
4	12.23	17.76	-1.1707	0.0071	-0.4577	-0.0061	0.3909	0.0123	-0.0527	0.0397	-2.6581	3.2275
5	12.23	16.91	-1.1403	0.0070	-0.4553	-0.0061	0.3993	0.0516	-0.0329	0.0444	-0.6385	0.8603
6	12.20	16.14	-1.1291	0.0067	-0.4452	-0.0060	0.3443	0.0747	-0.0352	0.0503	-0.4718	0.6732
7	12.20	15.42	-1.1051	0.0073	-0.4351	-0.0066	0.3937	0.1071	-0.0382	0.0884	-0.3566	0.8253
8	12.17	14.67	-1.0515	0.0109	-0.4347	-0.0104	0.4134	0.1977	-0.0399	0.1070	-0.2020	0.5411
9	12.15	13.87	-1.0192	0.0104	-0.4255	-0.0102	0.4175	0.2614	-0.0419	0.1129	-0.1603	0.4319
10	12.13	13.14	-0.9727	0.0098	-0.4160	-0.0101	0.4277	0.2785	-0.0427	0.1413	-0.1532	0.5073
11	12.14	12.38	-0.9036	0.0087	-0.4020	-0.0097	0.4449	0.3281	-0.0422	0.1463	-0.1286	0.4460
12	12.11	11.65	-0.8702	0.0068	-0.3865	-0.0079	0.4445	0.3721	-0.0405	0.1591	-0.1088	0.4275
13	12.11	10.85	-0.8255	0.0059	-0.3681	-0.0071	0.4458	0.3787	-0.0387	0.1725	-0.1021	0.4554
14	12.08	10.09	-0.7471	0.0050	-0.3512	-0.0067	0.4701	0.3922	-0.0360	0.1759	-0.0918	0.4484
15	12.09	9.30	-0.7402	0.0026	-0.3280	-0.0036	0.4432	0.4701	-0.0331	0.1768	-0.0705	0.3762
16	12.08	8.49	-0.6170	0.0008	-0.3171	-0.0013	0.5139	0.5159	-0.0304	0.1850	-0.0590	0.3586
17	12.07	7.67	-0.5687	-0.0016	-0.2942	-0.0029	0.5173	0.5314	-0.0277	0.1928	-0.0521	0.3628
18	12.05	6.88	-0.5201	-0.0035	-0.2706	-0.0067	0.5203	0.5238	-0.0244	0.2030	-0.0467	0.3876
19	12.06	6.13	-0.4545	-0.0085	-0.2370	-0.0188	0.5215	0.5779	-0.0204	0.2118	-0.0354	0.3664
20	12.05	5.23	-0.3881	-0.0088	-0.2080	-0.0228	0.5359	0.5783	-0.0192	0.2169	-0.0332	0.3751
21	12.05	4.49	-0.3206	-0.0078	-0.1860	-0.0243	0.5802	0.6017	-0.0156	0.2233	-0.0259	0.3711
22	12.03	3.68	-0.2645	-0.0081	-0.1558	-0.0308	0.5892	0.6085	-0.0135	0.2250	-0.0222	0.3697
23	12.05	2.97	-0.2173	-0.0085	-0.1252	-0.0391	0.5762	0.6470	-0.0113	0.2268	-0.0175	0.3505
24	12.04	2.17	-0.1348	-0.0066	-0.0981	-0.0493	0.7279	0.6759	-0.0104	0.2363	-0.0155	0.3496
25	12.00	1.40	-0.0412	-0.0060	-0.0805	-0.1468	1.9546	0.7123	-0.0097	0.2487	-0.0136	0.3492
26	12.02	0.62	-0.0048	-0.0054	-0.0512	1.1248	10.6666	0.7144	-0.0099	0.2604	-0.0139	0.3646
27	12.01	-0.09	0.0598	-0.0049	-0.0274	-0.0819	-0.4578	0.7270	-0.0099	0.2699	-0.0137	0.3713
28	12.03	-0.87	0.0787	-0.0040	-0.0013	-0.0515	-0.0162	0.7967	-0.0099	0.2712	-0.0124	0.3404
29	12.03	-1.65	0.0989	-0.0029	-0.0280	-0.0293	0.2837	0.8153	-0.0106	0.2798	-0.0131	0.3431
30	12.04	-2.47	0.1707	-0.0006	0.0557	-0.0038	0.3262	0.8359	-0.0110	0.2823	-0.0132	0.3378
31	12.05	-3.27	0.2128	-0.0000	0.0803	-0.0002	0.3774	0.8917	-0.0108	0.2838	-0.0122	0.3183
32	12.04	-4.11	0.2826	0.0022	0.1063	0.0080	0.3760	0.8647	-0.0115	0.2948	-0.0134	0.3410
33	12.01	-4.86	0.3686	0.0029	0.1311	0.0080	0.3557	0.8649	-0.0122	0.3014	-0.0141	0.3464
34	12.05	-5.60	0.3473	0.0053	0.1637	0.0135	0.4120	0.8652	-0.0130	0.3058	-0.0151	0.3534
35	12.04	-6.35	0.4804	0.0062	0.1867	0.0130	0.3083	0.9158	-0.0129	0.3070	-0.0141	0.3304
36	12.04	-7.17	0.5336	0.0061	0.2207	0.0115	0.4136	0.9018	-0.0132	0.3108	-0.0147	0.3438
37	12.01	-7.95	0.5919	0.0049	0.2431	0.0083	0.4107	0.9037	-0.0129	0.3106	-0.0143	0.3438
38	12.03	-8.79	0.6125	0.0031	0.2542	0.0050	0.3854	0.9287	-0.0118	0.3117	-0.0127	0.3356
39	12.05	-9.55	0.7493	0.0014	0.2888	0.0019	0.3854	0.9170	-0.0137	0.3205	-0.0149	0.3495
40	12.05	-10.31	0.8068	0.0005	0.3076	0.0006	0.3813	0.9463	-0.0137	0.3259	-0.0145	0.3444
41	12.08	-11.06	0.8696	-0.0002	0.3246	-0.0003	0.3732	0.9476	-0.0147	0.3264	-0.0155	0.3444
42	12.10	-11.83	0.9186	-0.0015	0.3436	-0.0016	0.3740	0.9658	-0.0143	0.3263	-0.0149	0.3379
43	12.10	-12.59	0.9600	-0.0017	0.3607	-0.0018	0.3757	0.9811	-0.0142	0.3259	-0.0145	0.3322
44	12.12	-13.39	1.0413	-0.0024	0.3898	-0.0023	0.3551	1.0043	-0.0135	0.3279	-0.0135	0.3264
45	12.12	-14.21	1.0552	-0.0021	0.3866	-0.0020	0.3664	1.0094	-0.0136	0.3312	-0.0135	0.3281
46	12.12	-15.07	1.1274	-0.0018	0.3949	-0.0016	0.3502	1.0424	-0.0135	0.3318	-0.0130	0.3183

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	184	1.10 1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	12.14	-15.82	1.1630	-0.0020	0.4030	-0.0017	0.3465	1.0215	-0.0136	0.3389	-0.0134	0.3317
48	12.14	-16.69	1.1815	0.0027	0.4105	0.0023	0.3474	1.0410	-0.0141	0.3360	-0.0135	0.3227
49	12.16	-17.45	1.2312	0.0034	0.4209	0.0028	0.3419	1.0403	-0.0135	0.3346	-0.0130	0.3217
50	12.15	-18.33	1.2760	0.0042	0.4258	0.0033	0.3337	0.9911	-0.0117	0.3413	-0.0119	0.3443
51	12.18	-19.16	1.2936	0.0064	0.4297	0.0049	0.3322	0.9793	-0.0117	0.3472	-0.0119	0.3546
52	12.20	-19.89	1.3392	0.0079	0.4332	0.0059	0.3235	1.0274	-0.0108	0.3438	-0.0105	0.3347
53	12.18	-20.26	1.3506	0.0106	0.4358	0.0078	0.3227	1.0081	-0.0117	0.3418	-0.0116	0.3391

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RX10-6	PH1	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	185	1.10	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	15.38	19.62	2.8863	-3.1990	-4.1629	5.5150	-0.1150	0.2151	-1.1083		
2	15.35	19.62	2.8945	-3.2904	-4.1463	5.3978	-0.1130	0.2063	-1.1368		
3	15.38	19.24	2.9604	-3.2287	-4.0935	5.3919	-0.1140	0.2095	-1.0906		
4	15.37	18.45	2.9116	-3.3344	-4.1737	5.4512	-0.0940	0.2043	-1.1452		
5	15.35	17.69	2.9168	-3.4576	-3.9516	5.2662	-0.0810	0.2265	-1.1786		
6	15.35	16.83	2.9136	-3.5261	-3.8836	5.1661	-0.0660	0.2118	-1.1759		
7	15.32	16.11	2.8815	-3.7362	-3.6809	5.1523	-0.0420	0.2010	-1.2966		
8	15.29	15.36	2.8758	-3.9452	-3.4431	4.9924	0.0090	0.1987	-1.3718		
9	15.26	14.60	2.8722	-4.1671	-3.2288	4.8112	0.0470	0.2076	-1.4508		
10	15.25	13.84	2.7888	-4.3273	-3.1536	4.9550	0.0570	0.2165	-1.5517		
11	15.20	13.08	2.7078	-4.5439	-2.8899	4.7788	0.0920	0.2087	-1.6780		
12	15.18	12.36	2.7804	-4.8925	-2.4852	4.4341	0.0460	0.2061	-1.7596		
13	15.21	11.59	2.8449	-5.0328	-2.3632	4.0114	0.0560	0.2091	-1.7690		
14	15.18	10.77	2.8766	-5.1551	-2.2137	3.8621	0.1040	0.2109	-1.7921		
15	15.20	10.01	2.8666	-5.2401	-2.0128	3.4839	0.1150	0.2121	-1.8280		
16	15.15	9.20	2.8622	-5.4589	-1.8845	3.2522	0.1460	0.2293	-1.9072		
17	15.16	8.37	2.8447	-5.5854	-1.7511	3.0194	0.1430	0.2231	-1.9634		
18	15.12	7.58	2.8326	-5.6465	-1.5541	2.7037	0.1550	0.2306	-1.9934		
19	15.11	6.80	2.8584	-5.8526	-1.4185	2.4349	0.1730	0.2278	-2.0475		
20	15.09	6.02	2.8378	-5.9557	-1.1570	1.9488	0.1070	0.2141	-2.0987		
21	15.11	5.22	2.8910	-5.9632	-0.9606	1.5148	0.0860	0.2225	-2.0627		
22	15.09	4.36	2.8649	-6.0716	-0.7934	1.0958	0.0950	0.2221	-2.1193		
23	15.11	3.55	2.8954	-6.0803	-0.6422	0.7501	0.0850	0.2282	-2.1000		
24	15.08	2.81	2.8805	-6.1714	-0.4962	0.5557	0.0990	0.2443	-2.1425		
25	15.10	1.99	2.8721	-6.1227	-0.4486	0.3831	0.1030	0.2369	-2.1518		
26	15.10	1.31	2.8994	-6.1759	-0.3292	0.3878	0.0810	0.2411	-2.1300		
27	15.10	0.50	2.8571	-6.0957	-0.2808	0.2341	0.0460	0.2415	-2.1335		
28	15.12	-0.19	2.8994	-6.2219	-0.2042	0.3408	0.0350	0.2412	-2.1459		
29	15.10	-0.97	2.8736	-6.1848	-0.1175	0.3564	0.0210	0.2527	-2.1523		
30	15.09	-1.78	2.8904	-6.2443	-0.0803	0.3994	0.0220	0.2567	-2.1603		
31	15.12	-2.59	2.8813	-6.1976	0.1434	0.2522	-0.0200	0.2410	-2.1509		
32	15.10	-3.38	2.9133	-6.1994	0.1398	0.1243	0.0080	0.2466	-2.1279		
33	15.09	-4.18	2.8638	-6.2791	0.3075	-0.1345	-0.0120	0.2408	-2.1925		
34	15.09	-4.97	2.8693	-6.2108	0.4964	-0.4510	-0.0380	0.2476	-2.1645		
35	15.07	-5.73	2.8187	-6.1969	0.6585	-0.7819	-0.0860	0.2469	-2.1985		
36	15.10	-6.52	2.8522	-6.0708	0.9330	-1.2882	-0.1060	0.2533	-2.1285		
37	15.10	-7.30	2.8297	-5.9814	1.0469	-1.6256	-0.1280	0.2494	-2.1118		
38	15.11	-8.10	2.8162	-5.8415	1.2733	-2.0476	-0.1120	0.2474	-2.0742		
39	15.09	-8.88	2.8278	-5.7217	1.4886	-2.4910	-0.1340	0.2407	-2.0234		
40	15.14	-9.60	2.8541	-5.6118	1.6725	-2.8054	-0.1250	0.2403	-1.9461		
41	15.14	-10.49	2.8848	-5.5526	1.7391	-3.0796	-0.0650	0.2477	-1.9247		
42	15.14	-11.20	2.8226	-5.3655	1.9466	-3.4962	-0.0390	0.2558	-1.9009		
43	15.13	-11.96	2.8088	-5.2412	2.0223	-3.7082	-0.0420	0.2608	-1.8660		
44	15.18	-12.76	2.7998	-5.0196	2.3325	-4.0824	-0.0410	0.2557	-1.7928		
45	15.18	-13.46	2.8434	-4.7397	2.5918	-4.1814	-0.0340	0.2418	-1.6669		
46	15.18	-14.38	2.7207	-4.7199	2.7053	-4.6194	-0.0130	0.2480	-1.7348		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6										
6 185 1.10 1.7										
PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION										
0.0 0.250 0.0 0 0 0 0 0 0 0 0										
FIXED										
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP	
47	15.25	-15.18	2.8953	-4.2694	2.9184	-4.5007	0.0200	0.2382	-1.4746	
48	15.27	-15.97	2.8963	-4.1278	3.1032	-4.6614	0.0470	0.2458	-1.4252	
49	15.26	-16.78	2.9317	-4.1104	3.2633	-4.8675	0.0770	0.2447	-1.4020	
50	15.28	-17.62	2.9302	-3.7933	3.5093	-5.0031	0.1280	0.2478	-1.2946	
51	15.32	-18.44	2.9867	-3.6835	3.6598	-5.1727	0.1410	0.2385	-1.2333	
52	15.32	-19.31	2.9737	-3.4353	3.9585	-5.3059	0.1750	0.2440	-1.1552	
53	15.32	-20.04	2.9246	-3.2326	4.1856	-5.3448	0.2170	0.2534	-1.1053	
54	15.36	-20.28	3.0312	-3.1628	4.2161	-5.4017	0.2250	0.2372	-1.0434	
55	15.34	-20.20	2.9499	-3.1640	4.3954	-5.2167	0.2260	0.2478	-1.0726	

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CNFI	L	DEL1	DEL2	CEL3	DEL4	TRANSITION	
6 185 1.10 1.7				0.0	0.82	WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNFI	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CBI2	XCPF2	YCPF2
1	15.38	19.62	-0.4476	0.0482	-0.1800	-0.1078	0.4022	0.7249	0.0315	0.0953	0.0434	0.1314
2	15.35	19.62	-0.4759	0.0499	-0.1718	-0.1049	0.3609	0.7246	0.0318	0.0945	0.0439	0.1304
3	15.38	19.24	-0.4519	0.0486	-0.1768	-0.1075	0.3912	0.7281	0.0315	0.0955	0.0433	0.1312
4	15.37	18.45	-0.4199	0.0477	-0.1742	-0.1136	0.4149	0.7235	0.0316	0.0960	0.0437	0.1327
5	15.35	17.69	-0.4054	0.0473	-0.1680	-0.1167	0.4143	0.7131	0.0317	0.0961	0.0444	0.1348
6	15.35	16.83	-0.3821	0.0455	-0.1642	-0.1190	0.4298	0.7061	0.0316	0.0953	0.0447	0.1350
7	15.32	16.11	-0.3534	0.0447	-0.1525	-0.1264	0.4325	0.7014	0.0314	0.0943	0.0448	0.1345
8	15.29	15.36	-0.3112	0.0420	-0.1433	-0.1349	0.4604	0.6961	0.0317	0.0919	0.0455	0.1320
9	15.26	14.60	-0.2906	0.0421	-0.1275	-0.1448	0.4402	0.6939	0.0318	0.0924	0.0458	0.1332
10	15.25	13.84	-0.2772	0.0412	-0.1295	-0.1487	0.4670	0.6703	0.0320	0.0890	0.0477	0.1327
11	15.20	13.08	-0.2356	0.0415	-0.1245	-0.1761	0.5285	0.6514	0.0322	0.0860	0.0494	0.1320
12	15.18	12.36	-0.2558	0.0438	-0.1355	-0.1714	0.5299	0.6360	0.0320	0.0877	0.0504	0.1380
13	15.21	11.59	-0.2294	0.0422	-0.1211	-0.1841	0.5281	0.6424	0.0322	0.0850	0.0501	0.1323
14	15.18	10.77	-0.1534	0.0407	-0.1028	-0.2653	0.6702	0.6249	0.0322	0.0865	0.0515	0.1385
15	15.20	10.01	-0.1471	0.0381	-0.0861	-0.2593	0.5854	0.5995	0.0324	0.0808	0.0541	0.1347
16	15.15	9.20	-0.0467	0.0370	-0.0735	-0.3826	0.7644	0.6062	0.0327	0.0733	0.0540	0.1209
17	15.16	8.37	-0.0623	0.0345	-0.0643	-0.5537	1.0331	0.5863	0.0327	0.0696	0.0558	0.1187
18	15.12	7.58	-0.0346	0.0346	-0.0511	-1.0013	1.4777	0.5844	0.0328	0.0625	0.0561	0.1069
19	15.11	6.80	-0.0216	0.0355	-0.0297	-1.6432	1.3749	0.5846	0.0326	0.0583	0.0557	0.0998
20	15.09	6.02	-0.0118	0.0406	-0.0426	-3.4401	3.6129	0.5923	0.0328	0.0533	0.0554	0.0900
21	15.11	5.22	0.0327	0.0432	-0.0472	1.3209	-1.4435	0.5793	0.0329	0.0489	0.0568	0.0843
22	15.09	4.36	0.0429	0.0462	-0.0087	1.0779	-0.2029	0.5860	0.0328	0.0456	0.0560	0.0778
23	15.11	3.55	0.1255	0.0447	-0.0127	0.3451	-0.0984	0.5494	0.0332	0.0390	0.0604	0.0710
24	15.08	2.81	0.1258	0.0400	0.0050	0.3179	0.0399	0.5440	0.0334	0.0314	0.0614	0.0577
25	15.10	1.99	0.1551	0.0278	0.0127	0.1795	0.0818	0.5003	0.0339	0.0251	0.0677	0.0502
26	15.10	1.31	0.1007	0.0189	0.0135	0.1881	0.1376	0.4935	0.0344	0.0183	0.0697	0.0370
27	15.10	0.50	0.0650	0.0101	-0.0022	0.1561	-0.0345	0.4731	0.0346	0.0070	0.0731	0.0147
28	15.12	-0.19	-0.0068	0.0011	0.0024	-0.1691	-0.3580	0.4607	0.0350	0.0004	0.0759	0.0010
29	15.10	-0.97	-0.0415	-0.0043	0.0001	0.2241	-0.0017	0.4340	0.0352	-0.0089	0.0811	-0.0206
30	15.09	-1.78	-0.0544	-0.0237	0.0039	0.4356	-0.0712	0.4099	0.0350	-0.0176	0.0854	-0.0429
31	15.12	-2.59	-0.1153	-0.0285	-0.0136	0.2476	0.1181	0.3913	0.0354	-0.0266	0.0906	-0.0679
32	15.10	-3.38	-0.1081	-0.0424	0.0090	0.3926	-0.0831	0.3493	0.0344	-0.0347	0.0986	-0.0992
33	15.09	-4.18	-0.0966	-0.0487	0.0129	0.5046	-0.1337	0.3175	0.0343	-0.0385	0.1081	-0.1211
34	15.09	-4.97	-0.0865	-0.0487	0.0112	0.5635	-0.1297	0.3184	0.0341	-0.0451	0.1072	-0.1415
35	15.07	-5.73	-0.1214	-0.0459	0.0052	0.3784	-0.0452	0.3013	0.0343	-0.0458	0.1139	-0.1519
36	15.10	-6.52	-0.0545	-0.0394	0.0080	0.7228	-0.1475	0.2905	0.0332	-0.0498	0.1144	-0.1713
37	15.10	-7.30	-0.0498	-0.0305	0.0098	0.6123	-0.1969	0.2960	0.0325	-0.0546	0.1097	-0.1845
38	15.11	-8.10	0.0098	-0.0316	0.1298	-3.2290	3.0373	0.2652	0.0312	-0.0659	0.1176	-0.2486
39	15.09	-8.88	0.0440	-0.0286	0.0264	-0.6499	0.5991	0.2635	0.0304	-0.0717	0.1153	-0.2721
40	15.14	-9.68	0.0771	-0.0311	0.0446	-0.4039	0.5784	0.2521	0.0292	-0.0815	0.1158	-0.3233
41	15.14	-10.49	0.1499	-0.0383	0.0798	-0.2558	0.5327	0.2027	0.0274	-0.0963	0.1352	-0.4754
42	15.14	-11.20	0.2151	-0.0418	0.1043	-0.1945	0.4848	0.1764	0.0268	-0.1058	0.1515	-0.5984
43	15.13	-11.96	0.2211	-0.0417	0.1045	-0.1888	0.4725	0.1453	0.0260	-0.1135	0.1789	-0.7810
44	15.18	-12.76	0.1927	-0.0420	0.1157	-0.2182	0.6212	0.1218	0.0255	-0.1206	0.2093	-0.9903
45	15.18	-13.46	0.2477	-0.0425	0.1069	-0.1717	0.4317	0.0679	0.0246	-0.1369	0.3630	-2.0173
46	15.18	-14.38	0.3025	-0.0444	0.1324	-0.1469	0.4376	0.0455	0.0241	-0.1393	0.5296	-3.0624

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 185 1.10 1.7				0.0	B2WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	15.25	-15.18	0.2801	-0.0430	0.1310	-0.1536	0.4678	-0.0534	0.0242	-0.1621	-0.4540	3.0355
48	15.27	-15.97	0.3522	-0.0446	0.1356	-0.1267	0.3849	-0.1281	0.0247	-0.1739	-0.1932	1.3574
49	15.26	-16.78	0.3374	-0.0459	0.1582	-0.1360	0.4689	-0.1640	0.0251	-0.1785	-0.1530	1.0887
50	15.28	-17.62	0.4026	-0.0473	0.1643	-0.1176	0.4080	-0.2561	0.0260	-0.2008	-0.1015	0.7842
51	15.32	-18.44	0.4452	-0.0499	0.1658	-0.1120	0.3723	-0.2874	0.0258	-0.2052	-0.0897	0.7137
52	15.32	-19.31	0.4700	-0.0516	0.1727	-0.1099	0.3675	-0.3518	0.0258	-0.2246	-0.0733	0.6384
53	15.32	-20.04	0.4987	-0.0505	0.1828	-0.1012	0.3665	-0.4097	0.0266	-0.2340	-0.0649	0.5711
54	15.36	-20.28	0.5165	-0.0528	0.1833	-0.1022	0.3549	-0.4173	0.0263	-0.2427	-0.0631	0.5817
55	15.34	-20.20	0.5059	-0.0518	0.1824	-0.1025	0.3605	-0.4113	0.0263	-0.2429	-0.0639	0.5906

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 185 1.10 1.7				0.0	BZHUFL2	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF3	CH3	CH3	XCPF3	YCPF3	CNF4	CH4	CH4	XCPF4	YCPF4
1	15.38	19.62	-1.2069	0.0082	-0.4776	-0.0068	0.3958	0.0852	-0.0382	0.0508	-0.4489	0.5961
2	15.35	19.62	-1.2438	0.0069	-0.4716	-0.0056	0.3792	0.0901	-0.0388	0.0598	-0.4311	0.6640
3	15.38	19.24	-1.2235	0.0069	-0.4733	-0.0057	0.3868	0.0747	-0.0369	0.0514	-0.4946	0.6880
4	15.37	18.45	-1.2246	0.0062	-0.4675	-0.0051	0.3818	0.1032	-0.0379	0.0607	-0.3677	0.5881
5	15.35	17.69	-1.2153	0.0065	-0.4636	-0.0054	0.3802	0.0851	-0.0383	0.0813	-0.4500	0.9560
6	15.35	16.83	-1.1882	0.0042	-0.4655	-0.0069	0.3918	0.1152	-0.0377	0.0806	-0.3272	0.6995
7	15.32	16.11	-1.1596	0.0105	-0.4668	-0.0091	0.3974	0.1550	-0.0395	0.0976	-0.2548	0.6300
8	15.29	15.36	-1.1415	0.0120	-0.4570	-0.0105	0.4004	0.2219	-0.0425	0.1214	-0.1915	0.5473
9	15.26	14.60	-1.1016	0.0124	-0.4507	-0.0113	0.4091	0.2758	-0.0439	0.1365	-0.1593	0.4949
10	15.25	13.84	-1.0469	0.0118	-0.4391	-0.0113	0.4195	0.3497	-0.0461	0.1553	-0.1319	0.4441
11	15.20	13.08	-1.0235	0.0102	-0.4200	-0.0100	0.4104	0.4222	-0.0472	0.1669	-0.1119	0.3953
12	15.18	12.36	-0.9777	0.0107	-0.4057	-0.0110	0.4149	0.4035	-0.0420	0.1663	-0.1042	0.4120
13	15.21	11.59	-0.9088	0.0079	-0.3883	-0.0087	0.4273	0.4269	-0.0404	0.1821	-0.0946	0.4267
14	15.18	10.77	-0.8486	0.0067	-0.3602	-0.0079	0.4480	0.5295	-0.0380	0.1872	-0.0717	0.3536
15	15.20	10.01	-0.8090	0.0039	-0.3604	-0.0048	0.4456	0.5206	-0.0354	0.2097	-0.0681	0.4027
16	15.15	9.20	-0.7381	0.0029	-0.3468	-0.0039	0.4699	0.5946	-0.0325	0.2160	-0.0547	0.3633
17	15.16	8.37	-0.6610	0.0005	-0.3247	-0.0008	0.4913	0.6253	-0.0281	0.2242	-0.0450	0.3585
18	15.12	7.58	-0.6325	-0.0020	-0.3036	0.0032	0.4797	0.6557	-0.0251	0.2320	-0.0383	0.3538
19	15.11	6.80	-0.5454	-0.0041	-0.2775	0.0076	0.5088	0.6856	-0.0205	0.2481	-0.0299	0.3619
20	15.09	6.02	-0.4801	-0.0067	-0.2474	0.0140	0.5152	0.6948	-0.0181	0.2430	-0.0260	0.3498
21	15.11	5.22	-0.3785	-0.0064	-0.2212	0.0170	0.5844	0.7115	-0.0166	0.2430	-0.0233	0.3415
22	15.09	4.36	-0.3254	-0.0065	-0.1913	0.0201	0.5879	0.7057	-0.0126	0.2550	-0.0178	0.3614
23	15.11	3.55	-0.2854	-0.0092	-0.1543	0.0322	0.5406	0.7232	-0.0108	0.2599	-0.0150	0.3593
24	15.08	2.81	-0.2070	-0.0079	-0.1264	0.0384	0.6105	0.8003	-0.0090	0.2650	-0.0112	0.3311
25	15.10	1.99	-0.1013	-0.0072	-0.1065	0.0716	1.0558	0.8220	-0.0080	0.2769	-0.0098	0.3369
26	15.10	1.31	-0.0867	-0.0065	-0.0731	0.0755	0.8430	0.8707	-0.0073	0.2852	-0.0084	0.3276
27	15.10	0.50	-0.0505	-0.0047	-0.0415	0.0940	0.8223	0.9069	-0.0080	0.2844	-0.0089	0.3136
28	15.12	-0.19	0.0137	-0.0049	-0.0178	-0.3612	1.3018	0.9336	-0.0084	0.3011	-0.0090	0.3225
29	15.10	-0.97	0.0801	-0.0040	0.0022	-0.0506	0.0273	0.9451	-0.0094	0.3176	-0.0100	0.3361
30	15.09	-1.78	0.1383	-0.0037	0.0186	-0.0271	0.1344	0.9973	-0.0111	0.3231	-0.0112	0.3240
31	15.12	-2.59	0.1709	-0.0015	0.0613	-0.0091	0.3590	1.0101	-0.0115	0.3257	-0.0114	0.3224
32	15.10	-3.38	0.2174	0.0000	0.0825	-0.0002	0.3797	1.0540	-0.0121	0.3349	-0.0115	0.3178
33	15.09	-4.18	0.2769	0.0023	0.1175	0.0085	0.4242	1.0643	-0.0130	0.3421	-0.0122	0.3215
34	15.09	-4.97	0.3782	0.0045	0.1403	0.0120	0.3710	1.1146	-0.0146	0.3414	-0.0131	0.3063
35	15.07	-5.73	0.4487	0.0041	0.1685	0.0091	0.3755	1.0836	-0.0155	0.3481	-0.0143	0.3212
36	15.10	-6.52	0.5287	0.0056	0.2060	0.0107	0.3896	1.0971	-0.0161	0.3499	-0.0147	0.3189
37	15.10	-7.30	0.5953	0.0060	0.2353	0.0101	0.3955	1.1070	-0.0165	0.3522	-0.0149	0.3181
38	15.11	-8.10	0.6730	0.0037	0.2617	0.0055	0.3889	1.1270	-0.0157	0.3523	-0.0139	0.3126
39	15.09	-8.88	0.7395	0.0036	0.2842	0.0049	0.3843	1.1264	-0.0163	0.3558	-0.0145	0.3159
40	15.14	-9.68	0.8060	0.0020	0.3048	0.0025	0.3702	1.1503	-0.0157	0.3575	-0.0137	0.3108
41	15.14	-10.49	0.8712	0.0005	0.3235	0.0006	0.3713	1.1629	-0.0157	0.3698	-0.0135	0.3180
42	15.14	-11.20	0.9551	-0.0001	0.3351	-0.0001	0.3508	1.1563	-0.0163	0.3694	-0.0141	0.3195
43	15.13	-11.96	0.9565	-0.0013	0.3608	-0.0014	0.3764	1.1913	-0.0173	0.3666	-0.0146	0.3077
44	15.18	-12.76	1.0657	-0.0022	0.3720	-0.0021	0.3491	1.2157	-0.0171	0.3672	-0.0141	0.3020
45	15.18	-13.46	1.1195	-0.0029	0.3901	-0.0026	0.3485	1.2241	-0.0178	0.3698	-0.0145	0.3021
46	15.18	-14.38	1.1435	-0.0032	0.4103	-0.0028	0.3588	1.2216	-0.0178	0.3744	-0.0146	0.3065

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART PACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION												
6 185 1.10 1.7 0.0 82WUF12 0.0 0 0 0 0 FIXED												
PLINT	ALPHA	BETA	CNF3	CH3	C83	XCPF3	YCPF3	CNF4	CH4	C84	XCPF4	YCPF4
47	15.25	-15.18	1.1694	-0.0030	0.4198	-0.0026	0.3589	1.2257	-0.0185	0.3786	-0.0151	0.3089
48	15.27	-15.97	1.2497	-0.0025	0.4195	-0.0020	0.3360	1.2460	-0.0184	0.3787	-0.0148	0.3039
49	15.26	-16.78	1.2299	0.0014	0.4507	0.0012	0.3502	1.2361	-0.0182	0.3793	-0.0148	0.3068
50	15.28	-17.62	1.2058	0.0020	0.4556	0.0016	0.3388	1.2360	-0.0184	0.3818	-0.0149	0.3089
51	15.32	-18.44	1.3378	0.0034	0.4360	0.0025	0.3259	1.2314	-0.0182	0.3884	-0.0148	0.3154
52	15.32	-19.31	1.3377	0.0045	0.4486	0.0034	0.3354	1.2517	-0.0188	0.3858	-0.0151	0.3082
53	15.32	-20.04	1.3679	0.0107	0.4385	0.0079	0.3206	1.2662	-0.0188	0.3850	-0.0148	0.3041
54	15.36	-20.28	1.3741	0.0096	0.4484	0.0070	0.3263	1.2555	-0.0180	0.3896	-0.0143	0.3104
55	15.34	-20.20	1.3885	0.0106	0.4402	0.0077	0.3170	1.2510	-0.0189	0.3856	-0.0151	0.3083

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST	PART	MACH	RATIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6	186	1.10	1.7	0.0	B2WOF12	0.0	0	0	0	0	FIXED
POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP		
1	18.50	19.61	3.7779	-3.8773	-4.3770	4.8200	-0.0380	0.1611	-1.0263		
2	18.46	19.33	3.7027	-3.9640	-4.3090	4.9128	-0.0480	0.1539	-1.0706		
3	18.45	18.52	3.7645	-3.9965	-4.2777	4.7710	-0.0290	0.1534	-1.0616		
4	18.46	17.79	3.7453	-4.1036	-4.0393	4.5431	-0.0300	0.1634	-1.0957		
5	18.43	16.99	3.7139	-4.3256	-3.9049	4.5960	-0.0010	0.1601	-1.1647		
6	18.41	16.15	3.6676	-4.3498	-3.8080	4.5773	0.0260	0.1721	-1.1860		
7	18.42	15.42	3.7071	-4.4881	-3.5560	4.2935	0.0730	0.1741	-1.2107		
8	18.39	14.64	3.6608	-4.7142	-3.3062	4.1827	0.1030	0.1828	-1.2677		
9	18.35	13.85	3.6653	-5.0255	-3.0471	4.0320	0.1270	0.1859	-1.3711		
10	18.33	13.08	3.6844	-5.2972	-2.8747	3.8626	0.1530	0.1716	-1.4358		
11	18.33	12.34	3.6764	-5.3660	-2.6788	3.6584	0.1640	0.1654	-1.4596		
12	18.32	11.55	3.6393	-5.5150	-2.5573	3.4332	0.1870	0.1771	-1.5154		
13	18.31	10.73	3.6618	-5.7465	-2.3230	3.1742	0.1930	0.1757	-1.5693		
14	18.28	10.02	3.5978	-5.9278	-2.0773	2.9303	0.2010	0.1915	-1.6476		
15	18.26	9.35	3.6172	-6.0240	-2.1156	2.8349	0.2100	0.1849	-1.6654		
16	18.19	8.49	3.4762	-6.4755	-1.7652	2.6532	0.1970	0.1903	-1.8628		
17	18.18	7.63	3.4810	-6.6112	-1.5494	2.4181	0.2040	0.1867	-1.8992		
18	18.18	6.84	3.4619	-6.8515	-1.3560	1.9464	0.1740	0.1695	-1.9791		
19	18.19	6.10	3.5716	-6.9360	-1.0298	1.3757	0.1440	0.1798	-1.9420		
20	18.18	5.19	3.6575	-6.8953	-0.9525	0.9965	0.1800	0.1907	-1.8852		
21	18.18	4.42	3.6152	-6.9561	-0.9065	0.8081	0.2010	0.1846	-1.9241		
22	18.19	3.65	3.6014	-7.0157	-0.6990	0.5787	0.1940	0.1966	-1.9480		
23	18.17	2.87	3.5905	-7.0235	-0.6909	0.4673	0.1790	0.2095	-1.9561		
24	18.17	2.13	3.5914	-7.1097	-0.5714	0.5210	0.1460	0.2172	-1.9796		
25	18.14	1.37	3.5807	-7.1477	-0.4396	0.3415	0.0880	0.2284	-1.9962		
26	18.13	0.60	3.5472	-7.2268	-0.2307	0.2639	0.0630	0.2373	-2.0373		
27	18.16	-0.13	3.5677	-7.1285	-0.2084	0.1977	0.0290	0.2354	-1.9981		
28	18.14	-0.98	3.5754	-7.1703	-0.1694	0.4761	0.0160	0.2483	-2.0054		
29	18.15	-1.76	3.6076	-7.1424	-0.1685	0.5178	-0.0090	0.2444	-1.9798		
30	18.10	-2.54	3.5552	-7.2100	0.0343	0.3739	-0.0260	0.2349	-2.0280		
31	18.13	-3.29	3.5486	-7.2288	0.1959	0.2637	-0.0690	0.2220	-2.0371		
32	18.12	-4.16	3.5659	-7.2310	0.2213	0.1122	-0.0660	0.2084	-2.0278		
33	18.14	-4.95	3.5896	-7.2042	0.3365	0.0199	-0.0880	0.2290	-2.0069		
34	18.10	-5.70	3.5102	-7.1750	0.6140	-0.4437	-0.1170	0.2194	-2.0440		
35	18.13	-6.51	3.5149	-7.1266	0.7520	-0.8038	-0.1330	0.2175	-2.0275		
36	18.11	-7.33	3.4856	-6.9656	0.9445	-1.2163	-0.1580	0.2390	-1.9984		
37	18.14	-8.10	3.4943	-6.8268	1.2665	-1.7152	-0.1930	0.2505	-1.9537		
38	18.17	-8.94	3.5054	-6.5774	1.6054	-2.2675	-0.1750	0.2294	-1.8763		
39	18.18	-9.70	3.4643	-6.3809	1.6852	-2.4782	-0.2030	0.2362	-1.8419		
40	18.17	-10.50	3.4077	-6.1685	1.8846	-3.0123	-0.1670	0.2456	-1.8102		
41	18.21	-11.19	3.5598	-5.8597	2.0147	-2.7956	-0.1500	0.2440	-1.6460		
42	18.26	-12.02	3.6199	-5.7038	2.1938	-3.0613	-0.1090	0.2500	-1.5757		
43	18.22	-12.80	3.5023	-5.6602	2.3430	-3.5382	-0.0880	0.2441	-1.6161		
44	18.27	-13.66	3.5808	-5.5311	2.5567	-3.8033	-0.0810	0.2390	-1.5446		
45	18.27	-14.48	3.5757	-5.2730	2.6464	-3.8919	-0.0410	0.2376	-1.4747		
46	18.32	-15.35	3.5860	-5.0254	2.9942	-4.1499	-0.0540	0.2349	-1.4014		

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6									
6 186 1.10 1.7 0.0 B2WOF12 0.0 0 0 0 0 FIXED									
PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	18.35	-16.01	3.6698	-4.8098	3.1611	-4.1336	-0.0180	0.2155	-1.3106
48	18.33	-16.83	3.6742	-4.7140	3.3887	-4.3152	0.0240	0.2080	-1.2830
49	18.40	-17.63	3.7509	-4.3424	3.6623	-4.3463	0.0440	0.2120	-1.1577
50	18.39	-18.58	3.7713	-4.2050	3.8353	-4.5745	0.0770	0.2060	-1.1150
51	18.42	-19.40	3.7677	-4.1689	4.1356	-4.8249	0.0930	0.2065	-1.1065
52	18.41	-20.13	3.7708	-4.0133	4.4235	-4.8401	0.1240	0.2062	-1.0643

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART	MACH	RX10-6	PHI	CUNF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6	186	1.10	1.7	0.0	82WOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF1	CHI	CBI	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	18.50	19.61	-0.2877	0.0490	-0.1554	-0.1704	0.5400	0.8888	0.0323	0.1265	0.0364	0.1423
2	18.46	19.33	-0.3424	0.0461	-0.1447	-0.1347	0.4226	0.8767	0.0321	0.1256	0.0366	0.1432
3	18.45	18.52	-0.2930	0.0478	-0.1453	-0.1631	0.4960	0.8904	0.0321	0.1225	0.0360	0.1376
4	18.46	17.79	-0.2943	0.0464	-0.1425	-0.1578	0.4840	0.8802	0.0322	0.1222	0.0366	0.1389
5	18.43	16.99	-0.3071	0.0437	-0.1273	-0.1422	0.4146	0.8923	0.0321	0.1195	0.0360	0.1339
6	18.41	16.15	-0.2212	0.0447	-0.1261	-0.2023	0.5701	0.8757	0.0323	0.1191	0.0369	0.1360
7	18.42	15.42	-0.1683	0.0416	-0.0950	-0.2474	0.5643	0.8569	0.0324	0.1192	0.0378	0.1391
8	18.39	14.64	-0.1154	0.0430	-0.0886	-0.3709	0.7646	0.8401	0.0325	0.1199	0.0387	0.1427
9	18.35	13.85	-0.0920	0.0420	-0.0748	-0.4564	0.8136	0.8421	0.0324	0.1141	0.0385	0.1355
10	18.33	13.08	-0.0608	0.0385	-0.0666	-0.6331	1.0964	0.8242	0.0325	0.1132	0.0394	0.1373
11	18.33	12.34	-0.0684	0.0320	-0.0501	-0.4685	0.7323	0.8043	0.0327	0.1115	0.0406	0.1387
12	18.32	11.55	-0.0290	0.0296	-0.0358	-1.1858	1.4332	0.8142	0.0326	0.1049	0.0403	0.1289
13	18.31	10.73	0.0066	0.0264	-0.0295	3.9993	-4.4698	0.7819	0.0330	0.1017	0.0422	0.1300
14	18.28	10.02	0.0279	0.0266	-0.0185	0.5532	-0.6632	0.7755	0.0329	0.1016	0.0425	0.1310
15	18.26	9.35	0.0579	0.0223	-0.0050	0.3859	-0.0865	0.7424	0.0332	0.1006	0.0448	0.1355
16	18.19	8.49	0.0318	0.0309	-0.0364	0.9715	-1.1448	0.7332	0.0333	0.1015	0.0454	0.1385
17	18.18	7.63	0.0653	0.0331	-0.0169	0.5068	-0.2594	0.7303	0.0335	0.0970	0.0459	0.1328
18	18.18	6.84	0.0844	0.0405	-0.0227	0.4894	-0.2687	0.7397	0.0336	0.0897	0.0455	0.1213
19	18.19	6.10	0.1099	0.0413	-0.0163	0.3762	-0.1481	0.7207	0.0339	0.0901	0.0471	0.1250
20	18.18	5.19	0.1676	0.0330	-0.0270	0.1969	0.1614	0.6901	0.0331	0.0897	0.0480	0.1299
21	18.18	4.42	0.2409	0.0246	0.0565	0.1023	0.2344	0.6697	0.0334	0.0828	0.0499	0.1236
22	18.19	3.65	0.2267	0.0249	0.0626	0.1098	0.2763	0.6434	0.0331	0.0806	0.0515	0.1253
23	18.17	2.87	0.2181	0.0227	0.0515	0.1043	0.2360	0.6337	0.0334	0.0708	0.0528	0.1117
24	18.17	2.13	0.1325	0.0111	0.0549	0.0841	0.4147	0.5984	0.0339	0.0632	0.0567	0.1056
25	18.14	1.37	0.1136	0.0113	0.0275	0.0995	0.2425	0.6259	0.0340	0.0445	0.0544	0.0711
26	18.13	0.60	0.0874	0.0138	0.0090	0.1584	0.1032	0.6011	0.0342	0.0436	0.0570	0.0726
27	18.16	-0.13	-0.0275	-0.0029	0.0019	0.1054	-0.0704	0.5543	0.0347	0.0299	0.0626	0.0540
28	18.14	-0.98	-0.0609	-0.0176	-0.0112	0.2175	0.1379	0.5318	0.0348	0.0154	0.0654	0.0290
29	18.15	-1.76	-0.1106	-0.0186	-0.0310	0.1686	0.2808	0.5283	0.0347	0.0078	0.0658	0.0147
30	18.10	-2.54	-0.1325	-0.0407	-0.0205	0.3075	0.1581	0.4795	0.0347	-0.0042	0.0723	-0.0087
31	18.13	-3.29	-0.2036	-0.0320	-0.0413	0.1571	0.2031	0.4755	0.0352	-0.0055	0.0740	-0.0116
32	18.12	-4.16	-0.2107	-0.0494	-0.0214	0.2347	0.1016	0.4284	0.0351	-0.0171	0.0820	-0.0399
33	18.14	-4.95	-0.2294	-0.0484	-0.0268	0.2109	0.1170	0.4126	0.0349	-0.0222	0.0847	-0.0537
34	18.10	-5.70	-0.1961	-0.0473	-0.0253	0.2414	0.1292	0.3919	0.0345	-0.0279	0.0880	-0.0711
35	18.13	-6.51	-0.1979	-0.0460	-0.0158	0.2327	0.0801	0.3690	0.0341	-0.0310	0.0924	-0.0840
36	18.11	-7.33	-0.1504	-0.0416	-0.0105	0.2026	0.0662	0.3649	0.0328	-0.0388	0.0900	-0.1062
37	18.14	-8.10	-0.1809	-0.0354	-0.0067	0.1959	0.0369	0.3553	0.0319	-0.0399	0.0899	-0.1122
38	18.17	-8.94	-0.0937	-0.0276	-0.0056	0.2950	0.0600	0.3560	0.0305	-0.0522	0.0858	-0.1467
39	18.18	-9.70	-0.0455	-0.0208	-0.0065	0.4582	0.1420	0.3219	0.0288	-0.0591	0.0894	-0.1836
40	18.17	-10.50	0.0248	-0.0288	0.0228	-1.1611	0.9179	0.2874	0.0280	-0.0729	0.0975	-0.2536
41	18.21	-11.19	0.0113	-0.0276	0.0243	-2.4465	2.1474	0.2588	0.0267	-0.0937	0.1033	-0.3623
42	18.26	-12.02	0.0488	-0.0322	0.0522	-0.6597	1.0689	0.1923	0.0261	-0.0994	0.1357	-0.5170
43	18.22	-12.80	0.1369	-0.0407	0.0723	-0.2576	0.5282	0.1462	0.0254	-0.1068	0.1740	-0.7304
44	18.27	-13.66	0.1600	-0.0401	0.0706	-0.2509	0.4413	0.1641	0.0248	-0.1193	0.1511	-0.7271
45	18.27	-14.48	0.2088	-0.0455	0.0880	-0.2181	0.4213	0.0947	0.0240	-0.1328	0.2539	-1.4028
46	18.32	-15.35	0.1612	-0.0431	0.0991	-0.2676	0.6149	0.0825	0.0235	-0.1403	0.2848	-1.7007

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 186 1.10 1.7				0.0	0.2	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CHI	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	18.35	-16.01	0.2308	-0.0432	0.0925	-0.1874	0.4008	0.0106	0.0234	-0.1542	2.2072	-14.5536
48	18.33	-16.83	0.2630	-0.0454	0.1198	-0.1728	0.4556	-0.0497	0.0237	-0.1647	-0.4768	3.3151
49	18.40	-17.63	0.2805	-0.0435	0.1034	-0.1552	0.3685	-0.1342	0.0243	-0.1793	-0.1810	1.3362
50	18.39	-18.58	0.3268	-0.0454	0.1243	-0.1390	0.3803	-0.1514	0.0248	-0.1843	-0.1638	1.2176
51	18.42	-19.40	0.3579	-0.0474	0.1384	-0.1324	0.3866	-0.1839	0.0256	-0.1909	-0.1395	1.0385
52	18.41	-20.13	0.3818	-0.0481	0.1493	-0.1261	0.3911	-0.2175	0.0262	-0.2013	-0.1204	0.9259

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6			PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION		
6 186 1.10 1.7			0.0	02WOF12	0.0	0	0	0	0	FIXED		
POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPE3	YCPE3	CNF4	CM4	CB4	XCPE4	YCPE4
1	18.50	19.61	-1.2676	0.0114	-0.4533	-0.0090	0.3891	0.1739	-0.0432	0.0961	-0.2484	0.5529
2	18.46	19.33	-1.2565	0.0108	-0.4500	-0.0086	0.3900	0.1769	-0.0411	0.0999	-0.2300	0.5585
3	18.45	18.52	-1.2596	0.0115	-0.4883	-0.0092	0.3877	0.1688	-0.0427	0.1025	-0.2532	0.6075
4	18.46	17.79	-1.2529	0.0094	-0.4752	-0.0075	0.3793	0.2244	-0.0438	0.1130	-0.1952	0.5034
5	18.43	16.99	-1.2061	0.0076	-0.4700	-0.0063	0.3897	0.2584	-0.0445	0.1261	-0.1722	0.4880
6	18.41	16.15	-1.1782	0.0120	-0.4782	-0.0102	0.4059	0.2814	-0.0466	0.1307	-0.1657	0.4643
7	18.42	15.42	-1.1925	0.0143	-0.4661	-0.0120	0.3909	0.3380	-0.0484	0.1393	-0.1431	0.4122
8	18.39	14.64	-1.1293	0.0140	-0.4610	-0.0124	0.4082	0.3696	-0.0488	0.1466	-0.1320	0.3971
9	18.35	13.85	-1.0708	0.0136	-0.4490	-0.0127	0.4193	0.4096	-0.0476	0.1616	-0.1162	0.3945
10	18.33	13.08	-1.0455	0.0119	-0.4326	-0.0114	0.4137	0.4667	-0.0453	0.1861	-0.0971	0.3988
11	18.33	12.34	-0.9600	0.0104	-0.4238	-0.0108	0.4414	0.5057	-0.0433	0.1944	-0.0857	0.3844
12	18.32	11.55	-0.9148	0.0097	-0.4148	-0.0107	0.4534	0.5435	-0.0420	0.2100	-0.0772	0.3864
13	18.31	10.73	-0.8793	0.0074	-0.3890	-0.0065	0.4424	0.5976	-0.0383	0.2181	-0.0641	0.3650
14	18.28	10.02	-0.8228	0.0049	-0.3727	-0.0060	0.4529	0.6350	-0.0368	0.2252	-0.0580	0.3546
15	18.26	9.35	-0.7673	0.0034	-0.3607	-0.0044	0.4702	0.6800	-0.0335	0.2370	-0.0492	0.3485
16	18.19	8.69	-0.6954	0.0003	-0.3378	-0.0005	0.4858	0.7810	-0.0274	0.2406	-0.0351	0.3081
17	18.18	7.63	-0.6322	-0.0029	-0.3149	0.0046	0.4982	0.7431	-0.0219	0.2680	-0.0295	0.3607
18	18.18	6.84	-0.5625	-0.0058	-0.2865	0.0103	0.5101	0.8108	-0.0187	0.2560	-0.0231	0.3157
19	18.19	6.10	-0.5090	-0.0074	-0.2510	0.0146	0.4731	0.8010	-0.0192	0.2633	-0.0240	0.3287
20	18.18	5.19	-0.4327	-0.0072	-0.2243	0.0166	0.5183	0.8078	-0.0155	0.2744	-0.0192	0.3397
21	18.18	4.42	-0.3748	-0.0067	-0.1992	0.0179	0.5314	0.8696	-0.0101	0.2795	-0.0117	0.3214
22	18.19	3.65	-0.2923	-0.0076	-0.1670	0.0260	0.5712	0.8913	-0.0092	0.2885	-0.0103	0.3237
23	18.17	2.87	-0.2668	-0.0055	-0.1400	0.0206	0.5247	0.9261	-0.0085	0.2980	-0.0092	0.3218
24	18.17	2.13	-0.1320	-0.0071	-0.1108	0.0542	0.8393	0.9668	-0.0085	0.3156	-0.0088	0.3264
25	18.14	1.37	-0.0942	-0.0065	-0.0770	0.0690	0.8173	1.0085	-0.0091	0.3204	-0.0090	0.3177
26	18.13	0.60	-0.0436	-0.0048	-0.0371	0.1101	0.8516	1.0290	-0.0088	0.3244	-0.0085	0.3152
27	18.16	-0.13	0.0484	-0.0054	-0.0237	-0.1116	-0.4891	1.0753	-0.0094	0.3336	-0.0087	0.3102
28	18.14	-0.98	0.0934	-0.0040	0.0013	-0.0428	0.0142	1.1098	-0.0110	0.3482	-0.0100	0.3138
29	18.15	-1.76	0.1153	-0.0036	0.0324	-0.0312	0.2312	1.1255	-0.0113	0.3559	-0.0100	0.3162
30	18.13	-2.54	0.1806	-0.0025	0.0665	-0.0141	0.3681	1.1483	-0.0120	0.3610	-0.0101	0.3013
31	18.13	-3.29	0.2480	-0.0021	0.0959	-0.0085	0.3868	1.2003	-0.0120	0.3627	-0.0100	0.3021
32	18.12	-4.16	0.3223	-0.0009	0.1276	-0.0029	0.3959	1.2251	-0.0122	0.3756	-0.0100	0.3066
33	18.14	-4.95	0.3544	0.0017	0.1598	0.0049	0.4508	1.2260	-0.0140	0.3860	-0.0115	0.3149
34	18.10	-5.70	0.4498	0.0026	0.1871	0.0053	0.3744	1.2561	-0.0141	0.3827	-0.0113	0.3047
35	18.13	-6.51	0.5366	0.0055	0.2149	0.0103	0.4005	1.2791	-0.0138	0.3804	-0.0108	0.2974
36	18.11	-7.33	0.6333	0.0055	0.2471	0.0087	0.3902	1.2581	-0.0136	0.3899	-0.0108	0.3099
37	18.14	-8.10	0.7474	0.0055	0.2704	0.0074	0.3618	1.2883	-0.0141	0.3903	-0.0110	0.3029
38	18.17	-8.94	0.8121	0.0041	0.3020	0.0050	0.3719	1.3261	-0.0134	0.3829	-0.0101	0.2887
39	18.18	-9.70	0.8101	0.0033	0.3296	0.0041	0.4069	1.2886	-0.0126	0.3854	-0.0098	0.2991
40	18.17	-10.50	0.9372	0.0018	0.3401	0.0019	0.3629	1.2931	-0.0134	0.3917	-0.0104	0.3029
41	18.21	-11.19	0.9582	-0.0017	0.3600	-0.0018	0.3757	1.3177	-0.0137	0.3974	-0.0100	0.2974
42	18.26	-12.02	1.0408	-0.0040	0.3715	-0.0039	0.3569	1.3267	-0.0125	0.3993	-0.0095	0.3010
43	18.22	-12.80	1.0802	-0.0034	0.3552	-0.0031	0.3659	1.3561	-0.0128	0.4031	-0.0094	0.2972
44	18.27	-13.66	1.1544	-0.0047	0.3492	-0.0041	0.3458	1.3568	-0.0135	0.3998	-0.0099	0.2947
45	18.27	-14.48	1.2063	-0.0046	0.4141	-0.0038	0.3433	1.3960	-0.0152	0.3995	-0.0109	0.2862
46	18.32	-15.35	1.2358	-0.0055	0.4318	-0.0044	0.3494	1.3601	-0.0148	0.4096	-0.0109	0.3012

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6												PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6 186 1.10 1.7												0.0	B2WOF12	0.0	0	0	0	0	FIXED
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4							
47	18.35	-16.01	1.2536	-0.0034	0.4402	-0.0028	0.3512	1.4143	-0.0180	0.4030	-0.0127	0.2842							
48	18.33	-16.83	1.3199	-0.0033	0.4451	-0.0025	0.3372	1.3905	-0.0181	0.4146	-0.0130	0.2981							
49	18.40	-17.63	1.3339	0.0020	0.4472	0.0015	0.3352	1.3824	-0.0191	0.4211	-0.0138	0.3046							
50	18.39	-18.58	1.3583	0.0046	0.4487	0.0034	0.3303	1.3978	-0.0178	0.4181	-0.0128	0.2991							
51	18.42	-19.40	1.4171	0.0022	0.4627	0.0016	0.3265	1.3889	-0.0184	0.4223	-0.0132	0.3041							
52	18.41	-20.13	1.4248	0.0083	0.4588	0.0059	0.3220	1.3966	-0.0192	0.4235	-0.0137	0.3032							

PAGE 1 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 187 1.10 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
1	21.60	19.32	4.5723	-4.1665	-4.3862	4.2440	0.0760	0.1489	-0.9113
2	21.58	19.04	4.5480	-4.2315	-4.3735	4.1792	0.0700	0.1538	-0.9304
3	21.57	18.26	4.5708	-4.2944	-4.3910	4.2847	0.0720	0.1432	-0.9395
4	21.58	17.43	4.4854	-4.2088	-4.2632	4.2608	0.1150	0.1424	-0.9383
5	21.57	16.60	4.4829	-4.3683	-4.0441	4.0539	0.1250	0.1524	-0.9744
6	21.55	15.91	4.4504	-4.5148	-3.8509	4.1544	0.1600	0.1366	-1.0145
7	21.52	15.08	4.4322	-4.7903	-3.6582	4.1526	0.1920	0.1333	-1.0808
8	21.50	14.35	4.4601	-5.1133	-3.4434	3.9019	0.2250	0.1402	-1.1465
9	21.49	13.51	4.5124	-5.3805	-3.2288	3.6214	0.2460	0.1341	-1.1924
10	21.46	12.73	4.3886	-5.4912	-3.0541	3.6108	0.2690	0.1352	-1.2512
11	21.43	11.99	4.2984	-5.7168	-2.7699	3.5190	0.2630	0.1312	-1.3300
12	21.40	11.26	4.3066	-6.0013	-2.5327	3.2578	0.2700	0.1334	-1.3935
13	21.37	10.44	4.2962	-6.1257	-2.2330	2.8152	0.2510	0.1409	-1.4258
14	21.36	9.56	4.3912	-6.3797	-2.0918	2.3926	0.2540	0.1389	-1.4528
15	21.35	8.78	4.3100	-6.6530	-1.8288	2.1703	0.2630	0.1452	-1.5436
16	21.34	7.96	4.3191	-6.7587	-1.6028	1.8520	0.2430	0.1505	-1.5648
17	21.31	7.14	4.3022	-6.8840	-1.4968	1.6526	0.2450	0.1340	-1.6001
18	21.34	6.34	4.4353	-7.0433	-1.2764	1.3041	0.2730	0.1712	-1.5880
19	21.34	5.47	4.4722	-7.2760	-1.1127	0.8508	0.2460	0.1788	-1.6269
20	21.33	4.70	4.4275	-7.1484	-1.1575	1.1826	0.2590	0.1878	-1.6145
21	21.27	3.84	4.2846	-7.3833	-0.9607	0.8750	0.2160	0.1855	-1.7232
22	21.25	3.10	5.2439	-7.4213	-0.9586	0.4641	0.1910	0.1979	-1.7487
23	21.28	2.31	4.3149	-7.5887	-0.5383	0.1557	0.1550	0.2071	-1.7587
24	21.22	1.58	4.3102	-7.5911	-0.2794	-0.1858	0.1240	0.1950	-1.7612
25	21.22	0.74	4.2477	-7.7456	-0.0353	-0.4465	0.0630	0.2203	-1.8235
26	21.24	0.04	4.3892	-7.6547	-0.0512	-0.2023	0.0360	0.2246	-1.7440
27	21.23	-0.70	4.2843	-7.6619	-0.1181	0.5473	-0.0240	0.2190	-1.7883
28	21.20	-1.59	4.2001	-7.5918	0.0113	0.2651	-0.0530	0.2088	-1.8076
29	21.22	-2.39	4.2503	-7.6733	0.1726	0.1813	-0.1160	0.2055	-1.8053
30	21.22	-3.17	4.2130	-7.6080	0.2081	0.2546	-0.1460	0.2038	-1.8058
31	21.23	-3.97	4.2359	-7.5821	0.3681	0.3886	-0.1820	0.2060	-1.7899
32	21.24	-4.75	4.2743	-7.5389	0.5871	-0.0701	-0.2100	0.2091	-1.7638
33	21.23	-5.56	4.2317	-7.4472	0.6317	-0.2005	-0.2290	0.1984	-1.7599
34	21.27	-6.34	4.2344	-7.3250	0.7950	-0.5011	-0.2390	0.1881	-1.7299
35	21.26	-7.16	4.2552	-7.1982	1.0731	-0.9784	-0.2500	0.1872	-1.6916
36	21.28	-7.97	4.2643	-7.0089	1.1520	-1.1159	-0.2470	0.1822	-1.6436
37	21.28	-8.78	4.2217	-6.8653	1.4204	-1.5353	-0.2460	0.1792	-1.6262
38	21.30	-9.52	4.2015	-6.6109	1.6280	-1.8812	-0.2450	0.1806	-1.5735
39	21.31	-10.37	4.2483	-6.3656	1.8148	-2.1857	-0.2430	0.1803	-1.4986
40	21.32	-11.12	4.2623	-6.2992	2.0360	-2.5065	-0.2280	0.1784	-1.4779
41	21.38	-11.87	4.3502	-5.9593	2.4273	-2.8063	-0.2310	0.1898	-1.3699
42	21.40	-12.67	4.3978	-5.7680	2.5228	-2.9370	-0.2070	0.2080	-1.3116
43	21.42	-13.46	4.4144	-5.5223	2.7584	-3.1619	-0.1830	0.2094	-1.2510
44	21.43	-14.27	4.3936	-5.4192	2.8398	-3.3218	-0.1820	0.2083	-1.2334
45	21.45	-15.11	4.4411	-5.2477	3.1480	-3.4503	-0.1590	0.1965	-1.1816
46	21.47	-15.98	4.3036	-5.0262	3.3550	-3.7831	-0.1210	0.1939	-1.1679

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 1 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 187 1.10 1.7 0.0 82WOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CAF	XCP
47	21.49	-16.83	4.4175	-4.7787	3.6539	-3.8767	-0.1050	0.1877	-1.0818
48	21.51	-17.58	4.4307	-4.5182	3.8668	-3.9447	-0.0570	0.1933	-1.0197
49	21.52	-18.46	4.4641	-4.3290	4.1348	-4.2419	-0.0240	0.1793	-0.9697
50	21.55	-19.32	4.5641	-4.3410	4.4051	-4.3764	-0.0010	0.1778	-0.9511
51	21.55	-20.08	4.5800	-4.2273	4.6881	-4.5596	0.0360	0.1844	-0.9230

PAGE 2 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART		MACH		RX10-6		PHI	CNFF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
6		187		1.10		1-7		0.0	0.2	0.0	0.0	0.0	FIXED
POINT	ALPHA	BETA	CNF1	CH1	CH2	XC PF1	YC PF1	CNF2	CH2	CH2	XC PF2	YC PF2	
1	21.60	19.32	-0.1364	0.0421	-0.1009	-0.3090	0.7401	0.9145	0.0339	0.1526	0.0371	0.1668	
2	21.58	19.04	-0.1565	0.0430	-0.0993	-0.2747	0.6348	0.9478	0.0342	0.1425	0.0361	0.1503	
3	21.57	18.26	-0.1612	0.0430	-0.0957	-0.2667	0.5938	0.9685	0.0345	0.1338	0.0357	0.1381	
4	21.58	17.43	-0.0974	0.0430	-0.0785	-0.4414	0.8065	0.9033	0.0356	0.1351	0.0395	0.1496	
5	21.57	16.60	-0.0790	0.0410	-0.0726	-0.5195	0.9193	0.9180	0.0358	0.1279	0.0390	0.1394	
6	21.55	15.91	-0.0721	0.0373	-0.0800	-0.5179	1.1099	0.8564	0.0368	0.1313	0.0430	0.1533	
7	21.52	15.08	-0.0997	0.0404	-0.0731	-0.4056	0.7334	0.8177	0.0382	0.1250	0.0468	0.1529	
8	21.50	14.35	-0.0323	0.0346	-0.0463	-1.0710	1.4323	0.8455	0.0378	0.1246	0.0447	0.1473	
9	21.49	13.51	-0.0122	0.0352	-0.0465	-2.8888	3.8414	0.8365	0.0386	0.1133	0.0462	0.1354	
10	21.46	12.73	0.0137	0.0297	-0.0286	-2.1711	-2.0901	0.8514	0.0381	0.1074	0.0448	0.1262	
11	21.43	11.99	-0.0156	0.0280	-0.0340	-1.7978	2.1794	0.8274	0.0385	0.1053	0.0465	0.1273	
12	21.40	11.26	-0.0034	0.0245	-0.0320	-7.2046	9.4214	0.8259	0.0390	0.1083	0.0473	0.1312	
13	21.37	10.44	-0.0155	0.0239	-0.0207	-1.5417	1.3332	0.8329	0.0377	0.1080	0.0453	0.1296	
14	21.36	9.56	0.0891	0.0184	-0.0161	0.2070	-0.1808	0.8035	0.0363	0.1211	0.0452	0.1508	
15	21.35	8.78	0.0629	0.0183	-0.0003	0.2909	-0.0054	0.7958	0.0381	0.1022	0.0479	0.1284	
16	21.34	7.96	0.1495	0.0159	0.0134	0.1063	0.0897	0.8174	0.0355	0.1124	0.0434	0.1375	
17	21.31	7.14	0.1584	0.0192	0.0252	0.1212	0.1590	0.8243	0.0346	0.1132	0.0420	0.1373	
18	21.34	6.34	0.2718	0.0057	0.0631	0.0212	0.2320	0.7514	0.0345	0.1178	0.0459	0.1568	
19	21.34	5.47	0.2586	0.0110	0.0643	0.0425	0.2485	0.7120	0.0341	0.1251	0.0479	0.1757	
20	21.34	4.70	0.1999	-0.0163	0.0950	-0.0818	0.4753	0.6740	0.0349	0.1152	0.0503	0.1709	
21	21.27	3.84	0.2029	0.0006	0.0645	0.0032	0.3179	0.6817	0.0335	0.1084	0.0491	0.1590	
22	21.25	3.10	0.2174	0.0023	0.0805	0.0106	0.3723	0.6774	0.0336	0.1068	0.0497	0.1577	
23	21.28	2.31	0.1553	0.0040	0.0629	0.0261	0.4053	0.6534	0.0346	0.0965	0.0515	0.1478	
24	21.22	1.58	0.2076	0.0157	0.0525	0.0759	0.2528	0.6578	0.0331	0.0893	0.0503	0.1358	
25	21.22	0.74	0.1528	0.0285	0.0244	0.1868	0.1598	0.6384	0.0332	0.0936	0.0521	0.1467	
26	21.24	0.04	0.0447	0.0053	0.0150	0.1197	0.3355	0.5908	0.0337	0.0791	0.0570	0.1339	
27	21.23	-0.70	-0.0829	-0.0017	-0.0374	0.0205	0.4514	0.5971	0.0337	0.0510	0.0564	0.0854	
28	21.20	-1.59	-0.1023	-0.0004	-0.0547	0.0039	0.5346	0.6039	0.0334	0.0397	0.0553	0.0657	
29	21.22	-2.39	-0.1173	0.0013	-0.0784	-0.0076	0.4421	0.6181	0.0332	0.0262	0.0537	0.0424	
30	21.22	-3.17	-0.2833	-0.0178	-0.0892	0.0630	0.3149	0.5470	0.0335	0.0146	0.0613	0.0267	
31	21.23	-3.97	-0.3229	-0.0124	-0.1053	0.0385	0.3261	0.5370	0.0336	0.0083	0.0626	0.0154	
32	21.24	-4.75	-0.3344	-0.0129	-0.1008	0.0387	0.3015	0.5135	0.0331	0.0041	0.0644	0.0081	
33	21.23	-5.56	-0.3282	-0.0158	-0.0997	0.0481	0.3037	0.4773	0.0327	-0.0067	0.0685	-0.0141	
34	21.27	-6.34	-0.3179	-0.0166	-0.0943	0.0522	0.2967	0.4484	0.0319	-0.0115	0.0711	-0.0255	
35	21.26	-7.16	-0.2826	-0.0126	-0.0770	0.0447	0.2724	0.4373	0.0310	-0.0192	0.0709	-0.0440	
36	21.28	-7.97	-0.2208	-0.0187	-0.0565	0.0847	0.2558	0.3899	0.0298	-0.0276	0.0764	-0.0709	
37	21.28	-8.78	-0.2133	-0.0171	-0.0466	0.0804	0.2184	0.3753	0.0290	-0.0351	0.0774	-0.0935	
38	21.30	-9.52	-0.1602	-0.0199	-0.0293	0.1242	0.1828	0.3629	0.0277	-0.0448	0.0764	-0.1235	
39	21.31	-10.37	-0.0825	-0.0205	-0.0196	0.2490	0.2375	0.3193	0.0266	-0.0545	0.0834	-0.1705	
40	21.32	-11.12	-0.0477	-0.0236	-0.0149	0.4957	0.3123	0.2922	0.0259	-0.0623	0.0888	-0.2131	
41	21.38	-11.87	-0.0299	-0.0308	0.0098	1.0316	-0.3240	0.2737	0.0253	-0.0740	0.0926	-0.2704	
42	21.40	-12.67	-0.0047	-0.0282	0.0006	5.9989	-0.1349	0.2510	0.0240	-0.0921	0.0956	-0.3672	
43	21.42	-13.46	0.0244	-0.0326	0.0204	-1.3358	0.8373	0.2027	0.0234	-0.1070	0.1157	-0.5282	
44	21.43	-14.27	0.0612	-0.0361	0.0347	-0.5898	0.5669	0.1982	0.0214	-0.1101	0.1181	-0.5458	
45	21.45	-15.11	0.0934	-0.0370	0.0398	-0.5461	0.4264	0.1810	0.0225	-0.1227	0.1246	-0.6778	
46	21.47	-15.98	0.1354	-0.0393	0.0614	-0.2906	0.4536	0.1163	0.0227	-0.1308	0.1952	-1.1251	

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(INSROC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 2 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 187 1.10 1.7				0.0	82WOF12	0.0	0	0	0	0	FIXED	
POINT	ALPHA	BETA	CNF1	CH1	CB1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
47	21.49	-16.83	0.1856	-0.0387	0.0519	-0.2087	0.3122	0.0690	0.0224	-0.1413	0.3246	-2.0479
48	21.51	-17.58	0.1565	-0.0393	0.0727	-0.2511	0.4648	-0.0018	0.0229	-0.1560	-12.7200	86.6665
49	21.52	-18.46	0.2111	-0.0406	0.0877	-0.1925	0.4156	-0.0406	0.0242	-0.1676	-0.5960	4.1288
50	21.55	-19.32	0.2484	-0.0421	0.1009	-0.1695	0.4061	-0.0882	0.0251	-0.1738	-0.2851	1.9704
51	21.55	-20.08	0.2775	-0.0457	0.1200	-0.1646	0.4323	-0.1206	0.0254	-0.1776	-0.2106	1.4725

PAGE 3 OF 3
SHEET 1 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6				PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION	
6 187 1.10 1.7				0.0	B2MOF12	0.0	0	0	0	0	FIXED	
PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPC3	YCPC3	CNF4	CH4	CB4	XCPC4	YCPC4
1	21.60	19.32	-1.2915	0.0137	-0.4901	-0.0106	0.3795	0.3039	-0.0452	0.1299	-0.1487	0.4273
2	21.58	19.04	-1.2647	0.0141	-0.5008	-0.0111	0.3960	0.3103	-0.0452	0.1322	-0.1458	0.4260
3	21.57	18.26	-1.2629	0.0133	-0.4550	-0.0104	0.3858	0.3254	-0.0458	0.1310	-0.1407	0.4026
4	21.58	17.43	-1.2411	0.0140	-0.4437	-0.0113	0.3976	0.3361	-0.0476	0.1380	-0.1417	0.4105
5	21.57	16.60	-1.2614	0.0137	-0.4802	-0.0109	0.3807	0.3509	-0.0482	0.1482	-0.1374	0.4224
6	21.55	15.91	-1.2260	0.0155	-0.4841	-0.0126	0.3949	0.4329	-0.0465	0.1632	-0.1075	0.3769
7	21.52	15.08	-1.2047	0.0140	-0.4717	-0.0117	0.3916	0.4431	-0.0475	0.1841	-0.1072	0.4156
8	21.50	14.35	-1.1157	0.0147	-0.4748	-0.0132	0.4256	0.5494	-0.0476	0.1926	-0.0867	0.3505
9	21.49	13.51	-1.0763	0.0127	-0.4571	-0.0118	0.4239	0.5753	-0.0463	0.2078	-0.0805	0.3612
10	21.46	12.73	-1.0288	0.0113	-0.4415	-0.0110	0.4291	0.6451	-0.0445	0.2126	-0.0690	0.3295
11	21.43	11.99	-0.9610	0.0089	-0.4254	-0.0093	0.4427	0.6851	-0.0386	0.2387	-0.0563	0.3484
12	21.40	11.26	-0.9226	0.0067	-0.4127	-0.0073	0.4473	0.7523	-0.0334	0.2528	-0.0444	0.3360
13	21.37	10.44	-0.8599	0.0048	-0.3892	-0.0056	0.4526	0.7824	-0.0321	0.2495	-0.0411	0.3189
14	21.36	9.56	-0.7957	0.0026	-0.3694	-0.0033	0.4643	0.7778	-0.0304	0.2663	-0.0391	0.3423
15	21.35	8.78	-0.7485	0.0011	-0.3473	-0.0015	0.4640	0.8496	-0.0267	0.2680	-0.0314	0.3154
16	21.34	7.96	-0.6787	-0.0001	-0.3279	0.0001	0.4832	0.8302	-0.0249	0.2728	-0.0300	0.3285
17	21.31	7.14	-0.6038	-0.0013	-0.3095	0.0022	0.5132	0.8334	-0.0250	0.2822	-0.0300	0.3386
18	21.34	6.34	-0.5542	-0.0051	-0.2811	0.0092	0.5073	0.8698	-0.0219	0.2895	-0.0252	0.3329
19	21.34	5.47	-0.4687	-0.0089	-0.2413	0.0191	0.5147	0.8850	-0.0198	0.2979	-0.0224	0.3366
20	21.33	4.70	-0.3939	-0.0081	-0.2153	0.0207	0.5467	0.9893	-0.0196	0.3114	-0.0199	0.3147
21	21.27	3.84	-0.3293	-0.0083	-0.1857	0.0253	0.5639	0.9791	-0.0159	0.3181	-0.0163	0.3248
22	21.25	3.10	-0.2177	-0.0065	-0.1567	0.0299	0.7200	0.9953	-0.0133	0.3291	-0.0134	0.3306
23	21.28	2.31	-0.1761	-0.0052	-0.1201	0.0298	0.6819	1.0798	-0.0131	0.3258	-0.0121	0.3017
24	21.22	1.58	-0.1052	-0.0045	-0.0761	0.0428	0.7239	1.0375	-0.0096	0.3347	-0.0093	0.3226
25	21.22	0.74	-0.0475	-0.0038	-0.0467	0.0800	0.9837	1.0897	-0.0091	0.3343	-0.0084	0.3068
26	21.24	0.04	0.0135	-0.0044	-0.0172	-0.3296	-1.2742	1.1520	-0.0101	0.3464	-0.0088	0.3007
27	21.23	-0.70	0.0919	-0.0040	0.0026	-0.0435	0.0285	1.1869	-0.0120	0.3642	-0.0101	0.3068
28	21.20	-1.59	0.1101	-0.0046	0.0393	-0.0422	0.3568	1.1905	-0.0092	0.3714	-0.0078	0.3120
29	21.22	-2.39	0.2094	-0.0009	0.0646	-0.0043	0.3084	1.2328	-0.0102	0.3709	-0.0083	0.3009
30	21.22	-3.17	0.2855	-0.0012	0.0932	-0.0042	0.3266	1.3057	-0.0105	0.3798	-0.0080	0.2909
31	21.23	-3.97	0.3243	0.0021	0.1329	0.0066	0.4097	1.3178	-0.0095	0.3850	-0.0072	0.2922
32	21.24	-4.75	0.4274	0.0046	0.1574	0.0109	0.3645	1.3159	-0.0104	0.3916	-0.0079	0.2976
33	21.23	-5.56	0.4938	0.0063	0.1564	0.0129	0.3978	1.3333	-0.0114	0.4005	-0.0086	0.3004
34	21.27	-6.34	0.5773	0.0071	0.2220	0.0123	0.3845	1.3740	-0.0109	0.3979	-0.0080	0.2896
35	21.26	-7.16	0.6691	0.0060	0.2518	0.0090	0.3790	1.3461	-0.0103	0.4051	-0.0076	0.3014
36	21.28	-7.97	0.7150	0.0045	0.2786	0.0063	0.3897	1.3566	-0.0042	0.3945	-0.0031	0.2908
37	21.28	-8.78	0.8065	0.0040	0.2998	0.0050	0.3718	1.3642	-0.0046	0.4011	-0.0034	0.2940
38	21.30	-9.52	0.8629	0.0023	0.3284	0.0027	0.3806	1.3794	-0.0006	0.3891	-0.0005	0.2820
39	21.31	-10.37	0.9595	0.0018	0.3428	0.0019	0.3573	1.3739	-0.0002	0.3908	-0.0001	0.2845
40	21.32	-11.12	1.0012	-0.0002	0.3658	-0.0002	0.3654	1.4034	0.0014	0.3950	0.0010	0.2814
41	21.38	-11.87	1.0420	-0.0014	0.3828	-0.0013	0.3674	1.3841	0.0051	0.3912	0.0037	0.2827
42	21.40	-12.67	1.1273	-0.0036	0.3974	-0.0032	0.3525	1.4210	-0.0013	0.4036	-0.0009	0.2840
43	21.42	-13.46	1.1847	-0.0044	0.4138	-0.0038	0.3493	1.3968	-0.0015	0.4137	-0.0011	0.2961
44	21.43	-14.27	1.2248	-0.0044	0.4211	-0.0036	0.3438	1.3921	0.0029	0.4071	0.0021	0.2924
45	21.45	-15.11	1.2623	-0.0052	0.4452	-0.0041	0.3527	1.4308	-0.0013	0.4127	-0.0009	0.2884
46	21.47	-15.98	1.3057	-0.0051	0.4529	-0.0039	0.3468	1.4259	-0.0000	0.4146	-0.0000	0.2907

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER(NSRDC)

7 BY 10 FOOT TRANSONIC WIND TUNNEL FACILITY

PAGE 3 OF 3
SHEET 2 OF 2

MARTIN MISSILE TAILS EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
6 107 1.10 1.1 0.0 82WOF12 0.0 0 0 0 0 FIXED

PCINT	ALPHA	BETA	CNF3	CH3	CB3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
47	21.49	-16.83	1.3509	-0.0046	0.4572	-0.0034	0.3385	1.4450	-0.0041	0.4205	-0.0029	0.2910
48	21.51	-17.58	1.3678	0.0010	0.4572	0.0007	0.3342	1.4885	-0.0053	0.4193	-0.0036	0.2817
49	21.52	-18.46	1.4016	-0.0012	0.4688	-0.0009	0.3345	1.4929	-0.0073	0.4224	-0.0049	0.2829
50	21.55	-19.32	1.4355	0.0007	0.4722	0.0005	0.3290	1.4632	-0.0079	0.4329	-0.0054	0.2958
51	21.55	-20.08	1.4824	0.0032	0.4737	0.0022	0.3195	1.5135	-0.0085	0.4295	-0.0056	0.2838

Listing of Part Numbers for the Tabulated Data of Test No. 6

CONF	L	DEL1	DEL2	DEL3	DEL4	PHI	TRANSITION	R x 10 ⁻⁶	α	β	Part Number					
											M _∞	M _∞	M _∞	M _∞	M _∞	M _∞
											0.85	0.92	0.97	1.01	1.05	1.10
B2WOF16	0	0	0	0	0	0	Fixed	1.7	Vary	0	1	2	3	4	5	6
B2WOF13	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	7	8	9	10	11	12
B2WOF12	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	13	14	15	16	17	18
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	3	Vary	19			
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	6	↓	20			
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	9	↓	21			
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	12	↓	22			
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	15	↓	23			
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	18	↓	24			
B2W2F0	16.75	OFF	OFF	OFF	OFF				Vary	0	(25)	(26)	(27)	(28)	(29)	(30)
B2W1F0	15.40	↓	↓	↓	↓						(31)	(32)	(33)	(34)	(35)	(36)
B2W3F0	16.75	↓	↓	↓	↓						(37)	(38)	(39)	(40)	(41)	(42)
B2W3F12	↓	0	0	0	0						(43)	(44)	(46)	(47)	(48)	(49)
B2W2F12	↓	↓	↓	↓	↓						(57)	(50)	(51)	(52)	(53)	(54)
↓	↓	↓	↓	↓	↓									56	55	
B2W1F12	15.40	↓	↓	↓	↓				↓	↓	(58)	(59)	(60)	(61)	(62)	(63)
B2WOF13	0	30	0	30					0	Vary	(64)	(65)	(66)	(67)	(68)	(69)
B2WOF12	↓	↓	↓	↓	↓								(71)	(72)	(73)	(74)
B2WOF16	↓	↓	↓	↓	↓						(75)	(76)	(77)	(78)	(79)	(80)
↓	↓	20	↓	20	↓						(81)	(82)	(83)	(85)	(86)	(87)
↓	↓	10	↓	10	↓				↓	↓	(88)		(91)	(92)	(93)	(94)
B2WOF0		OFF	OFF	OFF	OFF				Vary	0	(95)	(96)	(97)	(98)	(99)	(100)
B2WOF13		10	0	10	0				0	Vary	(102)	(103)	(104)	(105)	(106)	(107)
↓		20	↓	20	↓						(108)	(109)	(110)	(111)	(112)	(113)
B2WOF12		↓	↓	↓	↓						(114)	(115)	(116)	(117)	(118)	(119)
↓		10	↓	10	↓						(120)	(121)	(122)	(123)	(124)	(125)
↓		0	↓	0	↓				↓		(140)	(148)	(156)	(164)	(172)	(180)
↓		↓	↓	↓	↓				3		141	149	157	165	173	181
↓		↓	↓	↓	↓				6		(142)	(150)	(158)	(166)	(174)	(182)
↓		↓	↓	↓	↓				9		143	151	159	167	175	183
↓		↓	↓	↓	↓				12		(144)	(152)	(160)	(168)	(176)	(184)
↓		↓	↓	↓	↓				15		145	153	161	169	177	185
↓		↓	↓	↓	↓				18		(146)	(154)	(162)	(170)	(178)	(186)
↓		↓	↓	↓	↓				21	↓	147	155	163	171	179	187

NOMENCLATURE

A	Streamwise length of beveled portion of fin leading edge, in. (see Fig. 6)
ALPHA (α)	Model angle of attack, deg
AR	Fin aspect ratio, b^2/S_F
B	Streamwise length of beveled portion of fin trailing edge, in. (see Fig. 6)
BETA (β)	Model angle of sideslip, deg
b	Tail fin span, measured from the root chord to the tip, in. (see Fig. 6)
CA	Axial-force coefficient, measured axial force/ $q_\infty S$
CAB	Base axial-force coefficient, $(p_\infty - p_b)/q_\infty$
CAF	Forebody axial-force coefficient, $CA - CAB$
CB	Splitter plate tail fin root bending-moment coefficient, fin bending moment/ $q_\infty S_F b$
CB1, CB2, CB3, CB4	Root bending-moment coefficient of tail fins No. 1, 2, 3, and 4, respectively, fin bending moment/ $q_\infty S_F b$
CH	Splitter plate tail fin hinge-moment coefficient, hinge moment/ $q_\infty S_F C_R$
CH1, CH2, CH3, CH4	Hinge-moment coefficients of tail fins No. 1, 2, 3, and 4, respectively, fin hinge moment/ $q_\infty S_F C_R$
CLL	Rolling-moment coefficient, rolling moment/ $q_\infty Sd$
CLM	Pitching-moment coefficient, pitching moment/ $q_\infty Sd$ (moment reference point located on centerline at 50 percent of model body length)
CLN	Yawing-moment coefficient, yawing moment/ $q_\infty Sd$
CN	Normal-force coefficient, normal force/ $q_\infty S$

CNF	Splitter plate tail fin normal-force coefficient, fin normal force/ $q_{\infty} S_F$
CNF1, CNF2, CNF3, CNF4	Normal-force coefficient of tail fins No. 1, 2, 3, and 4, respectively, fin normal force/ $q_{\infty} S_F$
CONF	Model configuration identification
C_R	Tail fin root chord, in. (see Fig. 6)
C_T	Tail fin tip chord, in. (see Fig. 6)
C_Y	Side-force coefficient, side force/ $q_{\infty} S$
d	Model body maximum diameter, in. (see Fig. 3)
DEL1, DEL2, DEL3, DEL4	Deflection of tail fins No. 1, 2, 3, and 4, respectively, deg
L	Distance between model nose and the intersection of the wing leading edge with the body (measured parallel to the body centerline), in.
MACH (M_{∞})	Nominal free-stream Mach number
PART	Data indexing number
PHI	Model roll angle, deg
POINT	Data indexing number per part number
p_b	Average static pressure at model base, psfa
p_{∞}	Free-stream static pressure, psfa
q_{∞}	Free-stream dynamic pressure, psf
R	Nominal Reynolds number per foot
S	Maximum body cross-sectional area, ft ²
S_F	Tail fin planform area, ft ² (see Fig. 6)
TEST	Test identification number
T_R	Tail fin root thickness, in. (see Fig. 6)

TRANSITION	Transition identification
X	Distance from fin root chord leading edge to fin hinge line, in. (see Fig. 6)
XCP	Missile body center-of-pressure location, CLM/CN'
XCPF	Splitter plate fin longitudinal center-of-pressure location, CH/CNF
XCPF1, XCPF2 XCPF3, XCPF4	Longitudinal center-of-pressure location of tail fins No. 1, 2, 3, and 4, respectively, hinge moment/fin normal force
YCPF	Splitter plate fin lateral center-of-pressure location, CB/CNF
YCPF1, YCPF2 YCPF3, YCPF4	Lateral center-of-pressure location of tail fins No. 1, 2, 3, and 4, respectively, root bending moment/fin normal force
Λ	Tail fin leading-edge sweep angle (see Fig. 6)
λ	Tail fin taper ratio, C_T/C_R